

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-104 28-A
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR PATRICK PETROLEUM CORP., LeCLAIR-WESTWOOD, INC. - AGENT		7. UNIT AGREEMENT NAME NANCY CANYON
3. ADDRESS OF OPERATOR 388 Denver Club Bldg., Denver, CO 80202		8. FARM OR LEASE NAME NANCY CANYON
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1080' FNL and 1170' FWL At proposed prod. zone Same		9. WELL NO. #1-28
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 6.6 miles Northeast of Hatch Trading Post, Utah		10. FIELD AND POOL, OR WILDCAT Wildcat
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1080'	16. NO. OF ACRES IN LEASE 1920	17. NO. OF ACRES ASSIGNED TO THIS WELL 40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. none	19. PROPOSED DEPTH 6000'	20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5155' GR		22. APPROX. DATE WORK WILL START* May 10, 1981

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2	13-3/8	48#	300'	350 sx - suffic. to circ.
7-7/8"	4-1/2	10.5 & 11.6#	6000'	150 sx class "B". Suffic. to cover zones of interest.

We propose to drill a well to 6000' to test the Upper Ismay and Desert Creek Formations. If productive, we will run casing and complete. If dry we will plug and abandon as per Federal and State regulations.

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: \_\_\_\_\_  
BY: \_\_\_\_\_  
DURAND, CALIF.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Lee J. Green TITLE Para-Engineer DATE 4/27/81  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

OPERATOR'S COPY

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS, AND MINING**

SUBMIT IN TRIPPLICATE\*  
 (Other instructions on  
 reverse side)

FEDERAL

5. Lease Designation and Serial No.

U-104 28-A

6. If Indian, Allottee or Tribe Name

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. Type of Work

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. Type of Well

Oil Well ☒Gas Well ☐Other ☐Single Zone ☒Multiple Zone ☐

2. Name of Operator

PATRICK PETROLEUM CORP., LeCLAIR-WESTWOOD, INC. - AGENT

3. Address of Operator

388 Denver Club Bldg., Denver, CO 80202

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface 1170' FWL and 1080' FNL

At proposed prod. zone

Same

7. Unit Agreement Name

NANCY CANYON

8. Farm or Lease Name

NANCY CANYON

9. Well No.

#1-28

10. Field and Pool, or Wildcat

Wildcat

11. Sec., T., R., M., or Blk. and Survey or Area

Sec. 28, T38S-R25E

14. Distance in miles and direction from nearest town or post office\*

6.6 miles Northeast of Hatch Trading Post, Utah

12. County or Parrish 13. State

San Juan

Utah

15. Distance from proposed\*

location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)

1080'

16. No. of acres in lease

1920

17. No. of acres assigned to this well

40

18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft.

none

19. Proposed depth

6000'

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

5155' GR

22. Approx. date work will start\*

May 10, 1981

23.

**PROPOSED CASING AND CEMENTING PROGRAM**

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17-1/2"	13-3/8	48#	300'	350 sx - Suff. to circ.
7-7/8"	4-1/2"	10.5 & 11.6#	6000'	150 sx - Suff. to cover zones of interest.

We propose to drill a well to 6000' to test the Upper Ismay and Desert Creek Formations. If productive we will run casing and complete. If dry, we will plug and abandon as per Federal and State regulations.

**RECEIVED**  
 APR 30 1981

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present production zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Signed

*Greg S. Green*

Title

Para-Engineer

Date

4/27/81

(This space for Federal or State office use)

Permit No.

Approval Date

Approved by

Title

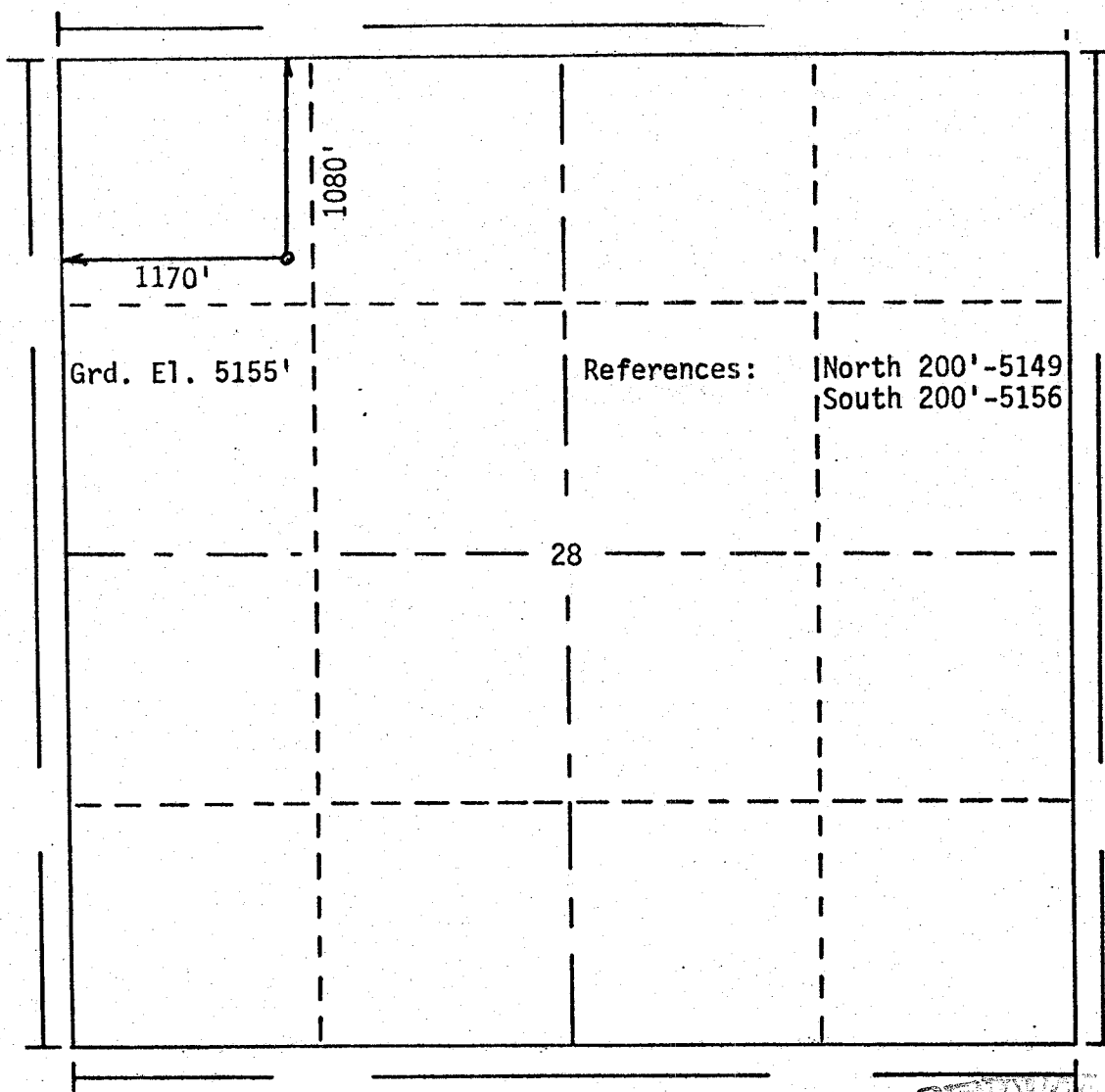
Date

Conditions of approval, if any:



Plat #1  
Patrick Petroleum Corp.  
Nancy Canyon #1-28  
1080' FNL & 1170' FWL  
Sec. 28, T38S-R25E  
San Juan County, Utah

R. 25 E.



T. 38 S.

Scale... 1" = 1000'

**Powers Elevation of Denver, Colorado**  
has in accordance with a request from **Lisa Green**  
for Patrick Petroleum  
determined the location of #1 Nancy Canyon Prospect  
to be 1080' FNL & 1170' FWL  
Range 25 East  
Section 28 Township 38 South  
Meridian  
Salt Lake  
San Juan County, Utah

I hereby certify that this plat is an  
accurate representation of a correct  
survey showing the location of

Date: 1 April 1981

T. Nelson  
Licensed Land Surveyor No. 2711  
State of Utah

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

FEDERAL

5. Lease Designation and Serial No.

U-104 28-A

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name

NANCY CANYON

9. Well No.

#1-28

10. Field and Pool, or Wildcat

~~Wildcat~~11. Sec., T., R., M., or Blk.  
and Survey or Area

Sec. 28, T38S-R25E

12. County or Parrish 13. State

San Juan

Utah

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. Type of Well

Oil Well ☒Gas Well ☐

Other

Single Zone ☒Multiple Zone ☐

2. Name of Operator

PATRICK PETROLEUM CORP., LeCLAIR-WESTWOOD, INC. - AGENT

3. Address of Operator

388 Denver Club Bldg., Denver, CO 80202

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface 1170' FWL and 1080' FNL

At proposed prod. zone

Same

14. Distance in miles and direction from nearest town or post office\*

6.6 miles Northeast of Hatch Trading Post, Utah

15. Distance from proposed\*

location to nearest  
property or lease line, ft.  
(Also to nearest drlg. line, if any)

1080'

16. No. of acres in lease

1920

17. No. of acres assigned  
to this well

40

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
or applied for, on this lease, ft.

none

19. Proposed depth

6000' *DC*

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

5155' GR

22. Approx. date work will start\*

May 10, 1981

23.

### PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17-1/2"	13-3/8	48#	300'	350 sx - Suff. to circ.
7-7/8"	4-1/2"	10.5 & 11.6#	6000'	150 sx - Suff. to cover zones of interest.

We propose to drill a well to 6000' to test the Upper Ismay and Desert Creek Formations. If productive we will run casing and complete. If dry, we will plug and abandon as per Federal and State regulations.

**APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING**

DATE: 3/25/81BY: [Signature]

APR 30 1981

DIVISION OF  
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Signed

[Signature]

Title

Para-Engineer

Date

4/27/81

(This space for Federal or State office use)

Permit No.

Approval Date

Approved by

Title

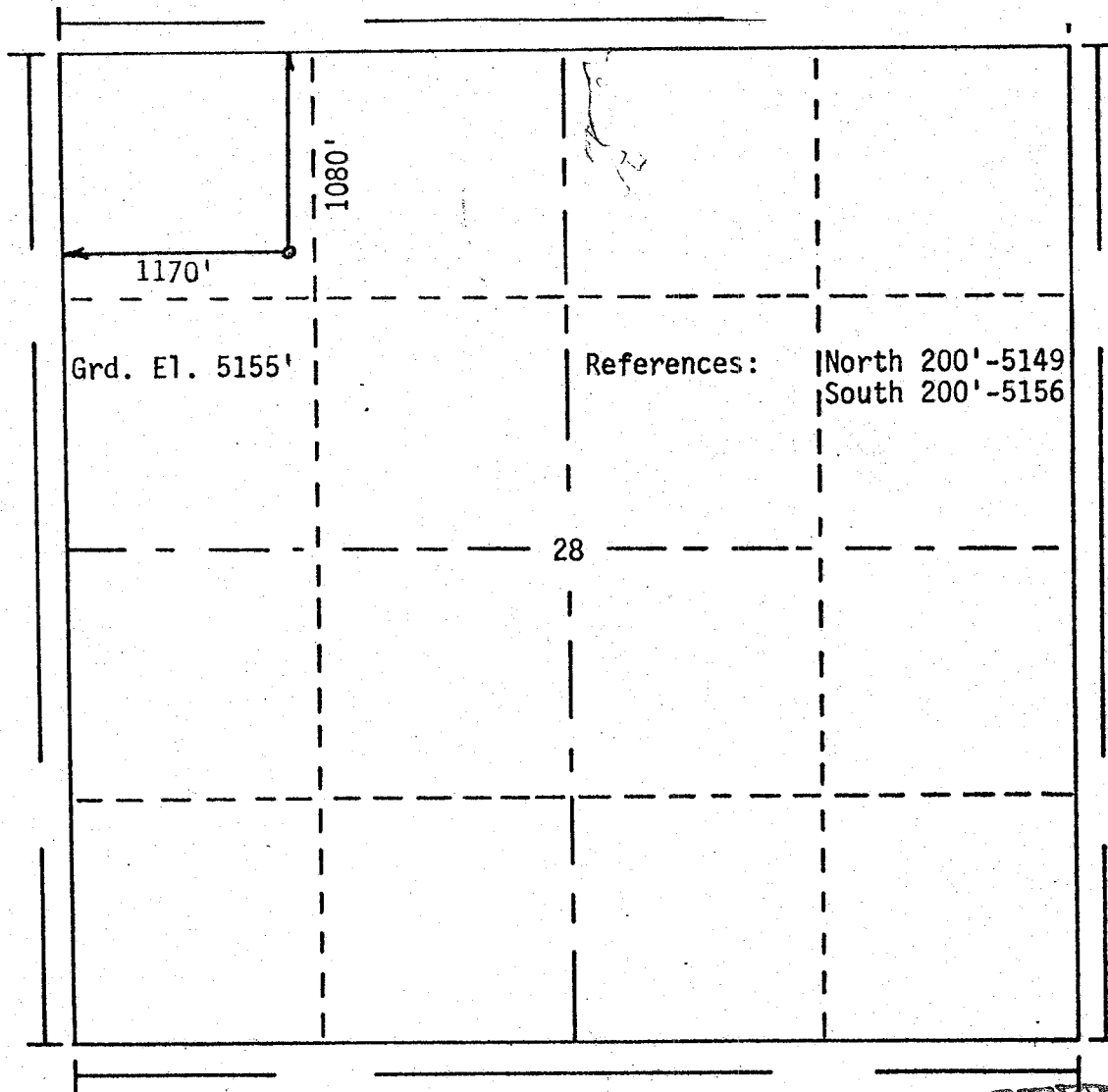
Date

Conditions of approval, if any:



Plat #1  
Patrick Petroleum Corp.  
Nancy Canyon #1-28  
1080' FNL & 1170' FWL  
Sec. 28, T38S-R25E  
San Juan County, Utah

R. 25 E.



Scale... 1" = 1000'

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**Powers Elevation of Denver, Colorado**

has in accordance with a request from Lisa Green  
for Patrick Petroleum

determined the location of #1 Nancy Canyon Prospect . .  
to be 1080' FNL & 1170' FWL

Range 25 East

San Juan

County, Utah

Salt Lake

Meridian

Section 28 Township 38 South

I hereby certify that this plat is an  
accurate representation of a correct  
survey showing the location of

Date: 1 April 1981

*T. Nelson*  
\_\_\_\_\_  
Licensed Land Surveyor No. 2711  
State of Utah

NTL-6 PROGRAM

APPROVAL OF OPERATIONS

NANCY CANYON #1-28  
1080' FNL and 1170' FWL  
Sec. 28, T38S - R25E  
San Juan County, Utah

Prepared For:

PATRICK PETROLEUM CORPORATION

By:

LeCLAIR-WESTWOOD, INC.  
388 Denver Club Building  
Denver, Colorado 80202

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DIVISION OF  
OIL, GAS & MINING

Copies sent to:

- 4 - U.S.G.S. - Durango, Colorado
- 1 - B.L.M. - Monticello, Utah
- ✓ 1 - State of Utah
- 1 - Perry McDonald Construct - (Dirt Contractor)
- 1 - Drilling Contractor
- 2 - Patrick Petroleum Corporation

LeCLAIR  
WESTWOOD  
INC.

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS, AND MINING**

SUBMIT IN TRIPPLICATE\*  
 (Other instructions on  
 reverse side)

FEDERAL

5. Lease Designation and Serial No.  
**U-104 28-A**

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

**NANCY CANYON**

8. Farm or Lease Name

**NANCY CANYON**

9. Well No.

**#1-28**

10. Field and Pool, or Wildcat

**Wildcat**

11. Sec., T., R., M., or Blk.  
 and Survey or Area

**Sec. 28, T38S-R25E**

12. County or Parrish 13. State

**San Juan Utah**

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. Type of Work

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. Type of Well

Oil Well ☒

Gas Well ☐

Other

Single Zone ☒

Multiple Zone ☐

2. Name of Operator

**PATRICK PETROLEUM CORP., LeCLAIR-WESTWOOD, INC. - AGENT**

3. Address of Operator

**388 Denver Club Bldg., Denver, CO 80202**

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface **1170' FWL and 1080' FNL**

At proposed prod. zone

**Same**

14. Distance in miles and direction from nearest town or post office\*

**6.6 miles Northeast of Hatch Trading Post, Utah**

15. Distance from proposed\*

location to nearest  
 property or lease line, ft.  
 (Also to nearest drlg. line, if any)

**1080'**

16. No. of acres in lease

**1920**

17. No. of acres assigned  
 to this well

**40**

18. Distance from proposed location\*  
 to nearest well, drilling, completed,  
 or applied for, on this lease, ft.

**none**

19. Proposed depth

**6000'**

20. Rotary or cable tools

**Rotary**

21. Elevations (Show whether DF, RT, GR, etc.)

**5155' GR**

22. Approx. date work will start\*

**May 10, 1981**

23.

**PROPOSED CASING AND CEMENTING PROGRAM**

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
<b>17-1/2"</b>	<b>13-3/8</b>	<b>48#</b>	<b>300'</b>	<b>350 sx - Suff. to circ.</b>
<b>7-7/8"</b>	<b>4-1/2"</b>	<b>10.5 &amp; 11.6#</b>	<b>6000'</b>	<b>150 sx - Suff. to cover zones of interest.</b>

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 OIL, GAS & MINING

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24.

Signed

*Lena L. Green*

Title

**Para-Engineer**

Date

**4/27/81**

(This space for Federal or State office use)

Permit No.

Approval Date

Approved by

Title

Date

Conditions of approval, if any:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

PATRICK PETROLEUM CORP., LeCLAIR-WESTWOOD, INC. - AGENT

## 3. ADDRESS OF OPERATOR

388 Denver Club Bldg., Denver, CO 80202

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)

At surface 1080' FNL and 1170' FWL

At proposed prod. zone

Same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

6.6 miles Northeast of Hatch Trading Post, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

1080'

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

none

## 16. NO. OF ACRES IN LEASE

1920

## 19. PROPOSED DEPTH

6000'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5155' GR

## 22. APPROX. DATE WORK WILL START\*

May 10, 1981

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2	13-3/8	48#	300'	350 sx - suffic. to circ.
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## 24.

SIGNED



TITLE

Para-Engineer

DATE

4/27/81

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

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DIVISION OF  
OIL, GAS & MINING



TEN POINT COMPLIANCE PROGRAM  
OF NTL-6 APPROVAL OF OPERATIONS

PATRICK PETROLEUM  
NANCY CANYON #1-28  
1080' FNL and 1170' FWL  
Sec. 28, T38S - R25E  
San Juan County, Utah

1. The outcropping geologic formation is the Morrison Formation.
2. The estimated formation tops to be encountered are as follows:

<u>FORMATION</u>	<u>DEPTH</u>	<u>SUBSEA</u>
Navajo	934	+4236
Kayenta	1259	+3911
Wingate	1472	+3698
Moenkopi	2571	+2599
De Chelly	2766	+2404
U. Hermosa	4581	+ 589
U. Ismay	5620	- 450
L. Ismay	5740	- 570
T. Desert Creek	5802	- 632
B. Desert Creek	5903	- 733
T.D.	6000	- 830

3. The following depths are estimated for oil and gas bearing zones.

<u>SUBSTANCES</u>	<u>FORMATION</u>	<u>ANTICIPATED DEPTH</u>
Oil	U. Ismay	5620'
Oil	Desert Creek	5802'

4. a. The proposed casing program will be as follows:

<u>PURPOSE</u>	<u>DEPTH</u>	<u>HOLE SIZE</u>	<u>O.D.</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>TYPE</u>
Surface	0-300'	17-1/2"	13-3/8"	48#	K-55	ST & C (New)
Production	0-6000'	7-7/8"	4-1/2"	10.5# & 11.6#	K-55	LT & C and ST & C (New)

- b. The cement program will be as follows:

<u>SURFACE</u>	<u>TYPE AND AMOUNT</u>
Surf. to 300'	Class "B" Cement - 350 sx (Suffic. to circ.) 2% CaCl <sub>2</sub> - 1/4# cello-flake
<u>PRODUCTION</u>	<u>TYPE AND AMOUNT</u>
T.D. to 600' above zone of interest.	Class "B" w/2% gel - 10% salt, .75% CRF-II Sufficient to cover zones of interest.

TEN POINT COMPLIANCE PROGRAM  
OF NTL-6 APPROVAL OF OPERATIONS

Patrick Petroleum Corp.  
Nancy Canyon #1-28  
1080' FNL and 1170' FWL  
Sec. 28, T38S - R25E  
San Juan County, Utah

5. Blowout preventer stack will consist of a 10", Series 3000 BOP. See BOP Diagram. Testing procedures: Equipment will be tested prior to drilling out from under surface and operational checks will be made daily thereafter.

6. Drilling fluid will be as follows:

DEPTH - INTERVAL  
Surf. to 300'

MUD TYPE  
Spud mud

DEPTH - INTERVAL  
300' - 2800'

MUD TYPE  
Fresh water.

MUD WT.  
9#/gal.

VISCOSITY  
35

FLUID LOSS  
15-20

PH  
9.5

DEPTH - INTERVAL  
2800' - 6000' (T.D.)

MUD TYPE  
Chemical gel mud.

MUD WT.  
8.9 - 11.4

VISCOSITY  
35-45

FLUID LOSS  
6.0

PH  
10.0

7. Auxiliary equipment to be used is as follows:

- a. Kelly Cock
- b. Float above the bit.
- c. Monitoring of the system will be done visually.
- d. A sub with a full opening valve will be on the floor when the kelly is not in use.

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OIL, GAS & MINING

8. Testing, logging and coring will be as follows:

- a. A 60' core in the Lower Desert Creek Formation will be obtained.
- b. Drill stem tests will be run as required by the wellsite geologist.
- c. The logging program will consist of GR-Sonic Integrated and Dual Induction from base of surface casing to T.D. CNL-FDC-GR Caliper will be run from 4000' to T.D.
- d. Stimulation will be determined after the evaluation of the logs and any testing that is done. If treatment is needed a sundry notice will be submitted.

9. No abnormal pressures or hydrogen sulfide gas are anticipated during the course of drilling to T.D. The maximum bottom hole pressure to be expected is 3500 psi.

10. Patrick Petroleum Corp. plans to spud the Nancy Canyon #1-28 on May 10, 1981 and intends to complete the well within approximately one month after the well has reached T.D.

MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Patrick Petroleum Corp.  
Nancy Canyon #1-28  
1080' FNL and 1170' FWL  
Sec. 28, T38S - R25E  
San Juan County, Utah

Gentlemen:

We submit the following application and plats for permission to drill the Nancy Canyon #1-28.

1. Existing Roads

- a. The proposed well site and elevation plat is shown on Plat #1.
- b. Directions from the nearest town to location are as follows:  
  
From Hatch Trading Post go North on pavement 2.3 miles. Turn East on dirt. Cross Motezuma Creek. Go 2.5 miles. Go North up Nancy Patterson Canyon 1.5 miles, then west along existing seismic road .1 mile to sharp bend in seismic road.
- c. For access roads see Map #1.
- d. All existing roads within a 3-mile radius are shown on Map #1.
- e. There are no development wells within a 1 mile radius.
- f. Improvement to existing access will be limited to a total disturbed width of 40 feet and 20 feet wide for traveled access. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

2. Planned Access Roads

- a. There are no new access roads - all existing.
- b. The grade will be 10% or less.
- c. No turnouts are planned.
- d. There will be ditches put along the uphill side of all roads for drainage. Water bars will be installed by the dirt contractor as needed.
- e. There will be 2 - 18" culverts and 1 - 24" culvert installed. See Map #1 for location of culverts.
- f. Natural bentonite will be placed on the access road and sandy areas.

MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Patrick Petroleum Corp.  
Nancy Canyon #1-28  
1080' FNL and 1170' FWL  
Sec. 28, T38S - R25E  
San Juan County, Utah

2. Planned Access Roads

- g. No gates, cattleguards or fence cuts will be necessary.
- h. The last 3/4 mile of access road will be 20 feet wide (traveled access) and 40 feet wide (turns) with no grade to exceed 10%.

3. Location of Existing Wells (See Map #2)

- a. There is 1 water well within a 2-mile radius of the proposed well.
- b. There is 1 abandoned well within a 2-mile radius of the proposed well which is presently being used as a water well.
- c. There are no known temporarily abandoned wells within a 2-mile radius of the proposed well.
- d. There are no known disposal wells within a 2-mile radius of the proposed well.
- e. There are no known drilling wells within a 2-mile radius of the proposed well.
- f. There are no known producing wells within a 2-mile radius of the proposed well.
- g. There are no known shut in wells within a 2-mile radius of the proposed well.
- h. There are no known injection wells within a 2-mile radius of the proposed well.

4. Location of Existing and/or Proposed Facilities

- a. There is one set of production facilities and gas gathering lines proposed by Patrick Petroleum Corp. within a one-mile radius of the proposed well.
- b. New facilities contemplated in the event of production are shown on Diagram #1.
  - 1. Proposed tank battery will be located on the northeast side of the proposed well pad.
  - 2. All flow lines from well site to battery site will be buried below frost line depth.

MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Patrick Petroleum Corp.  
Nancy Canyon #1-28  
1080' FNL and 1170' FWL  
Sec. 28, T38S - R25E  
San Juan County, Utah

4. Location of Existing and/or Proposed Facilities

3. Dimensions of the facilities will be 175' long and 175' wide.  
(See Diagram #1).
4. Only native materials will be utilized.
5. An earthen dike utilizing soil in the area surrounding the storage tank and separator will be constructed to contain oil should a leak occur. Any necessary pits will be properly fenced to prevent any wildlife entry. The production pit will be flagged overhead.
6. The reserve pit will be fenced and allowed to dry. Then all pits will be backfilled. The location not needed for production will be leveled, contoured and reseeded as per B.L.M. See requirements in 10 - b.

5. Location and Type of Water Supply

- a. The source of water will be the Southland Royalty Federal #1-28. Permission was received from Richard Perkins to use this water.
- b. Water will be trucked to location over the roads marked on Map #1.
- c. No water well is to be drilled on this lease.

6. Source of Construction Materials

- a. Only native materials are to be utilized.
- b. No construction materials will be taken off Federal land.
- c. Surface and sub soil materials in the immediate area will be utilized.
- d. All major access roads are shown on Map #1.

7. Methods for Handling Waste Disposal

- a. Drill cuttings are to be contained and buried in the reserve pit.
- b. Drilling fluids are to be contained in the reserve pit.
- c. The produced fluids will be produced into a test tank until such time as construction of production facilities is completed. If a test tank is not available, produced fluids will be handled in the reserve pit. Any spills of oil, gas, salt water or other produced fluids will be cleaned up and removed.

MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Patrick Petroleum Corp.  
Nancy Canyon #1-28  
1080' FNL and 1170' FWL  
Sec. 28, T38S - R25E  
San Juan County, Utah

7. Methods for Handling Waste Disposal

- d. A porta-toilet will be furnished with the drilling rig.
- e. A trash pit will be constructed near the mud tank with steep sides and dug at least six feet into solid undisturbed material. Trash will not be disposed of in the reserve pit. Garbage and non-flammable waste are to be contained in the trash pit. Flammable waste is to be contained in the burn pit. The trash is to be burned periodically and the remains buried when the well is completed. The trash and/or burn pit will be totally enclosed with small mesh wire to prevent wind scattering and wildlife entry. The reserve pit will be fenced on three sides with the fourth side being fenced prior to the removal of the rig. The fence will be kept in good repair while the pit is drying. A burning permit will be obtained from the State Fire Warden before burning trash.
- f. All trash, garbage, etc. is to be gathered and buried at the end of drilling operations and covered with a minimum of three feet of earth. Reserve and mud pits will be allowed to dry after drilling is completed and then adequately filled and leveled. All garbage and sewage pits will be filled as soon as the rig leaves the location.

8. Ancillary Facilities

- a. There are no airstrips, camps or other facilities planned during the drilling of the proposed well.

9. Well Site Layout

- a. See Diagram #2 for Well Pad Layout. See Diagram #3 for cross section of drill pad with cuts and fills.
- b. Location of mud tanks, reserve, burn and trash pits, pipe racks, living facilities and soil stockpiles will be shown on Diagram #4. The location will be laid out and constructed as discussed during the pre-drill conference and as indicated on the attached sheet.
- c. The reserve pits are not to be lined. Natural bentonite will be used.

10. Plans for Restoration of Surface

- a. The reserve pit will be fenced until dry. Pits will be backfilled, leveled, contoured and reseeded as per B.L.M. or surface owner's requirements.

MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Patrick Petroleum Corp.  
Nancy Canyon #1-28  
1080' FNL and 1170' FWL  
Sec. 28, T38S - R25E  
San Juan County, Utah

10. Plans for Restoration of Surface

- b. Seed will be broadcast and then harrowed (to get seed cover) during the fall months with the following seed prescription:
  - 2 lbs./acre Indian ricegrass
  - 1 lb./acre shadscale.
  - 1 lb./acre green ephedra.
- c. The reserve pit will be fenced on three sides with the fourth side being fenced prior to rig release. The fence will remain until restoration of the surface begins.
- d. If there is oil in the pit, it will be removed or the pit will be flagged overhead or covered with wire mesh as required.
- e. Rehabilitation operations will begin immediately after the drilling rig is removed. the trash and/or burn pits will be covered, produced fluids will be removed or flagged overhead and fenced immediately. Reseeding and revegetation operations will commence in the Fall of 1981 unless requested otherwise.

The operator or his contractor will contact the San Juan Resource Area BLM Office in Monticello, Utah (801/587-2201) 48 hours prior to starting rehabilitation work that involves earthmoving equipment and upon completion of restoration measures.

Before any dirtwork to restore the location takes place, the reserve pit must be completely dry and any trash it contains must be removed to the trash pit. The trash pit will not be filled in until recontouring work begins and will remain fenced until that time.

All newly disturbed areas will be recontoured to blend as nearly as practical with the natural topography. In the event of a dry hole, location and roads will be closed and re-seeded as per dirt contractor and BLM recommendations.

All disturbed areas will be scarified where practical with the contour to a depth of 4-6 inches.

The top 4-6 inches of topsoil will be stockpiled (windrow) South of the location.

MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Patrick Petroleum Corp.  
Nancy Canyon #1-28  
1080' FNL and 1170' FWL  
Sec. 28, T38S - R25E  
San Juan County, Utah

11. Other Information

- a. The site is on the upper slope of a long ridge just below a sandstone cap. The soil is tan sand, 15 cm in depth. There are two large boulders on the site. The vegetation is juniper, sagebrush, snakeweed, grasses, greasewood and mormon tea. For cultural and archeological findings - see archeological report.
- b. Surface in the area is being used for cattle grazing.
- c. The nearest water is 1 mile to the Federal #1-28 well. Other water is 2 miles away in Montezuma Creek and Cross Creek.
- d. Exception to standard spacing is requested due to archeological findings.
- e. Drilling is planned for May 10, 1981. It is anticipated that casing point will be reached within 25 days after commencement of drilling.
- f. The operator will notify the San Juan Resource Area BLM Office in Monticello, Utah (801/587-2201) if the well is determined a producer.
- g. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed in the methods described in the rehabilitation section.
- h. All above-ground production facilities will be painted a neutral color to be approved by the B.L.M.
- i. The dirt contractor will be furnished with a copy of this NTL program prior to any work.
- j. The operator or his contractor will contact the San Juan Resource Area office in Monticello, Utah (801/587-2201) 48 hours prior to beginning any work on public land.
- k. If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the San Juan Resources Area Office will be contacted. All employees working in the area will be informed by the operator that they will be subject to prosecution if they are caught disturbing archeological sites or picking up artifacts.

12. Lessee's or Operator's Representative

Lisa Green will be Patrick Petroleum Corporation's representative. Miss Green can be reached by telephone in Denver, Colorado at her office (303/825-4258).



MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Patrick Petroleum Corp.  
Nancy Canyon #1-28  
1080' FNL and 1170' FWLI  
Sec. 28, T38S - R25E  
San Juan County, Utah

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Patrick Petroleum Corp. and its contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved.

\_\_\_\_\_  
Date

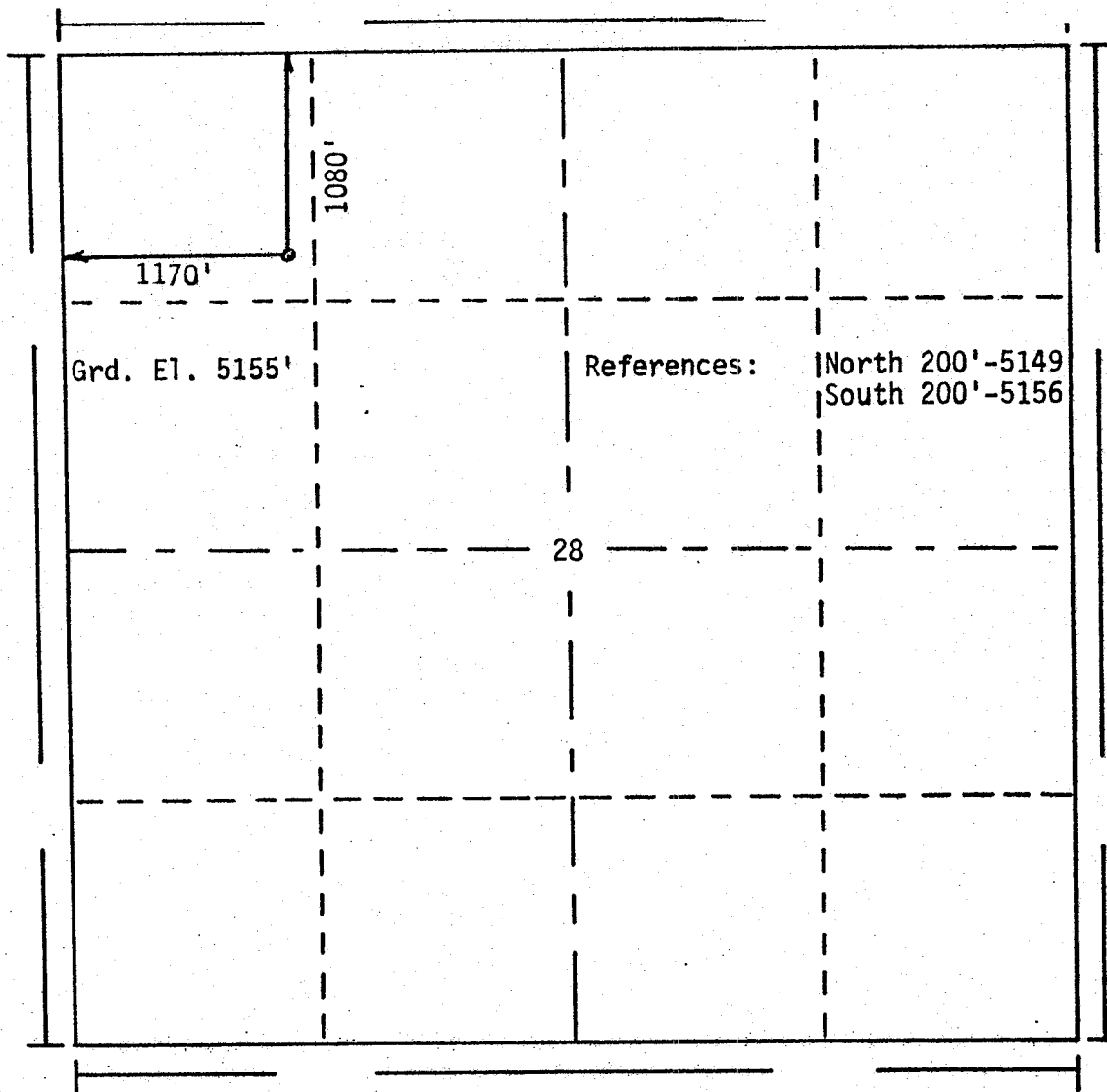
\_\_\_\_\_  
Lisa L. Green - Para-Engineer for LeClair-  
Westwood, Inc. - Agent for Patrick Petroleum  
Corporation.

LeCLAIR  
WESTWOOD  
INC.



Plat #1  
Patrick Petroleum Corp.  
Nancy Canyon #1-28  
1080' FNL & 1170' FWL  
Sec. 28, T38S-R25E  
San Juan County, Utah

R. 25 E.



T. 38 S.

Scale... 1" = 1000'

**Powers Elevation of Denver, Colorado**  
has in accordance with a request from Lisa Green  
for Patrick Petroleum  
determined the location of #1 Nancy Canyon Prospect . .  
to be 1080' FNL & 1170' FWL      Section 28 Township 38 South  
Range 25 East      Salt Lake Meridian  
San Juan County, Utah

I hereby certify that this plat is an  
accurate representation of a correct  
survey showing the location of

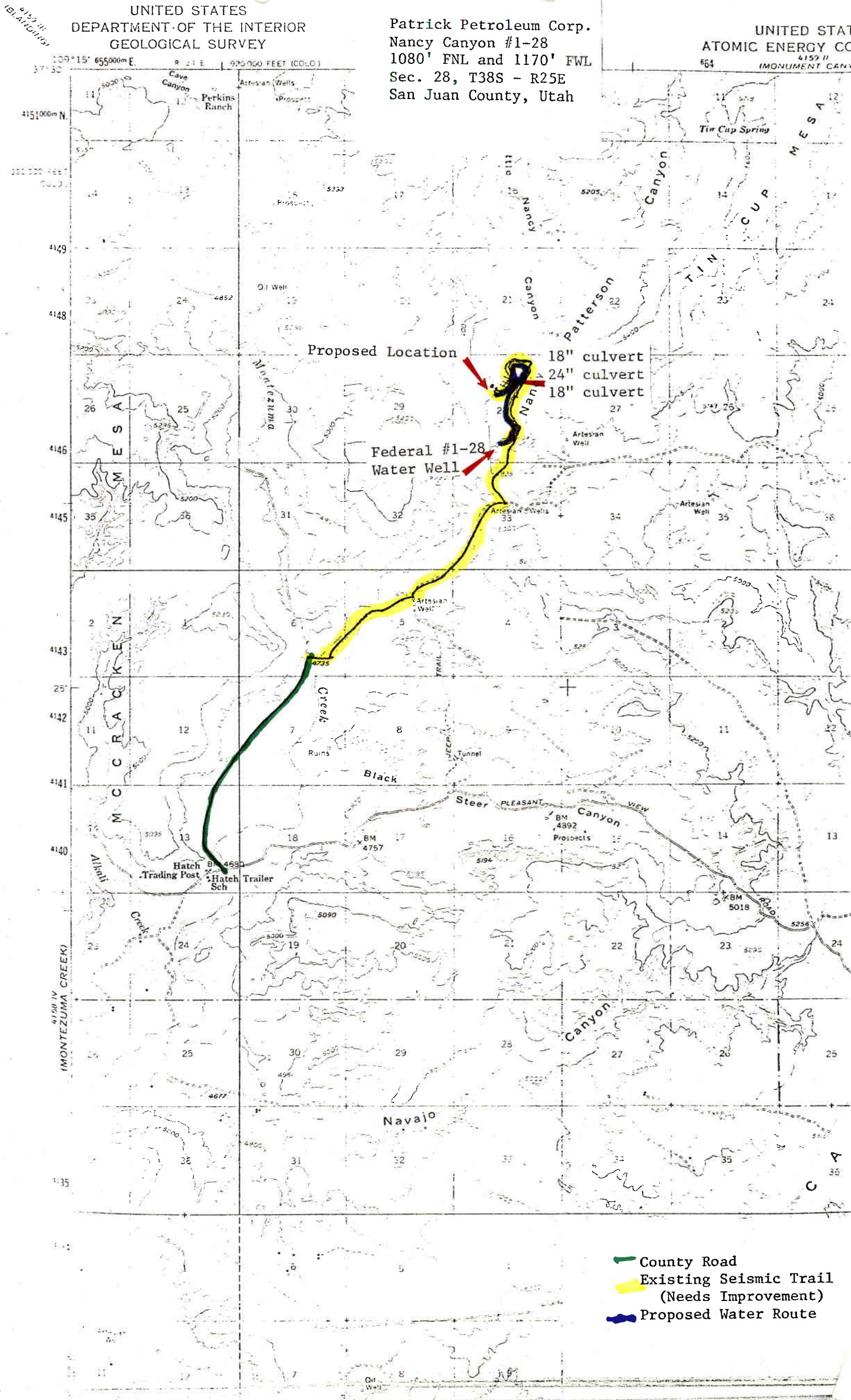
Date: 1 April 1981

T. Nelson  
Licensed Land Surveyor No. 2711  
State of Utah

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

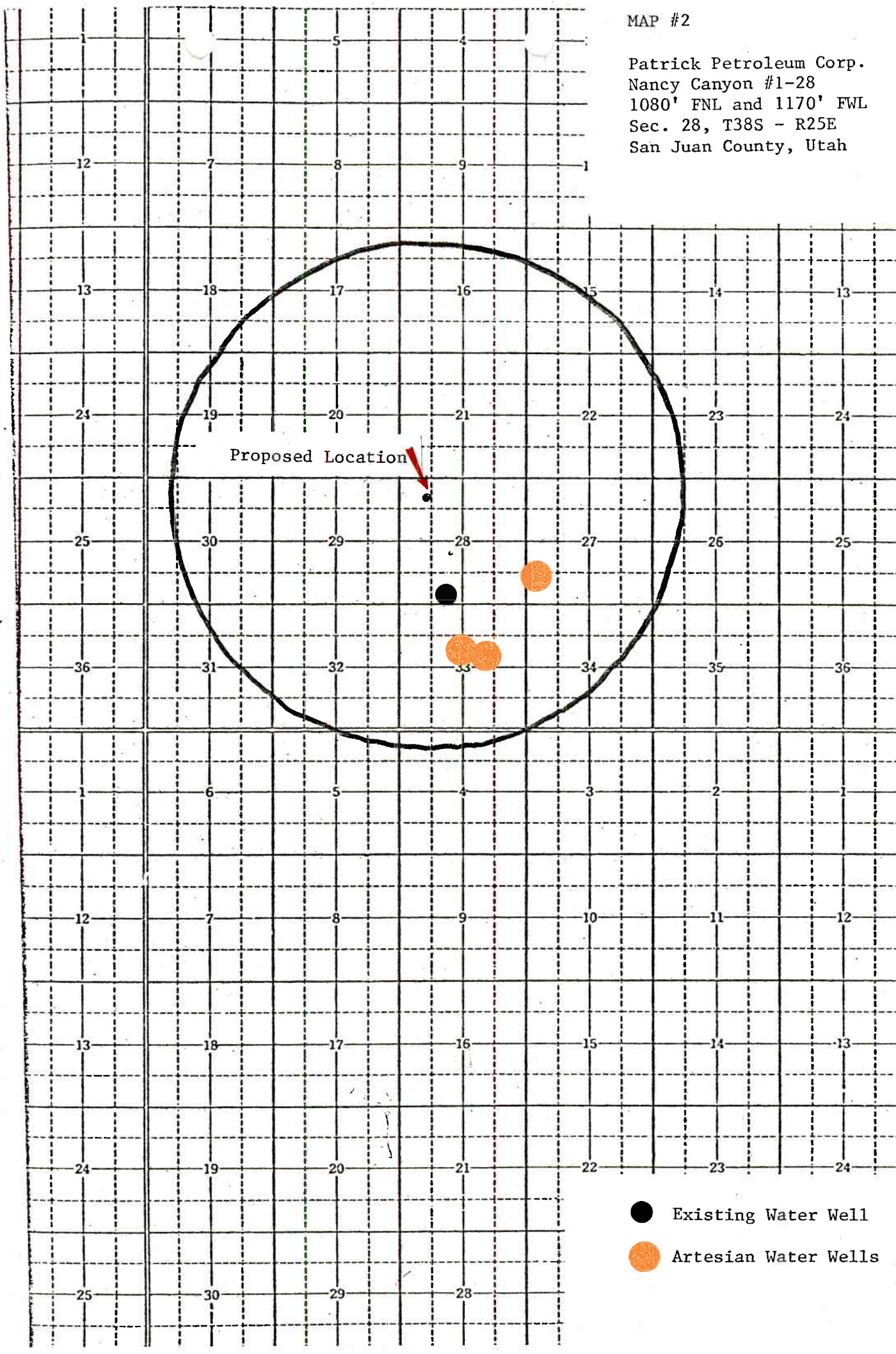
Patrick Petroleum Corp.  
Nancy Canyon #1-28  
1080' FNL and 1170' FWL  
Sec. 28, T38S - R25E  
San Juan County, Utah

UNITED STATES  
ATOMIC ENERGY COMMISSION  
4159 II  
MONUMENT CANYON





Patrick Petroleum Corp.  
Nancy Canyon #1-28  
1080' FNL and 1170' FWL  
Sec. 28, T38S - R25E  
San Juan County, Utah





POWERS ELEVATION

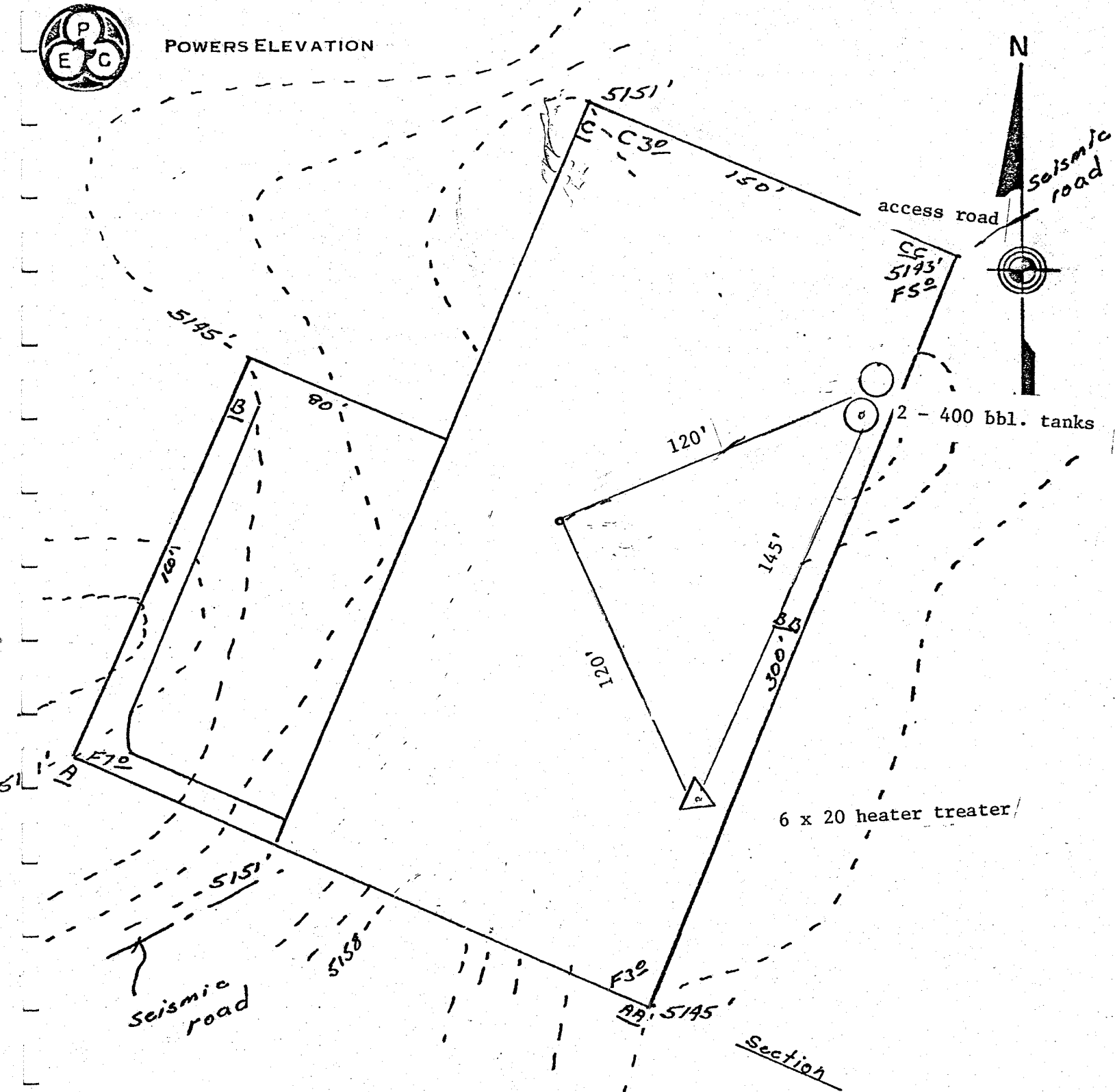


Diagram #1  
 Production Facility Layout  
 Patrick Petroleum Corp.  
 Nancy Canyon #1-28  
 1080' FNL & 1170' FWL  
 Sec. 28, T38S-R25E  
 San Juan County, Utah



POWERS ELEVATION

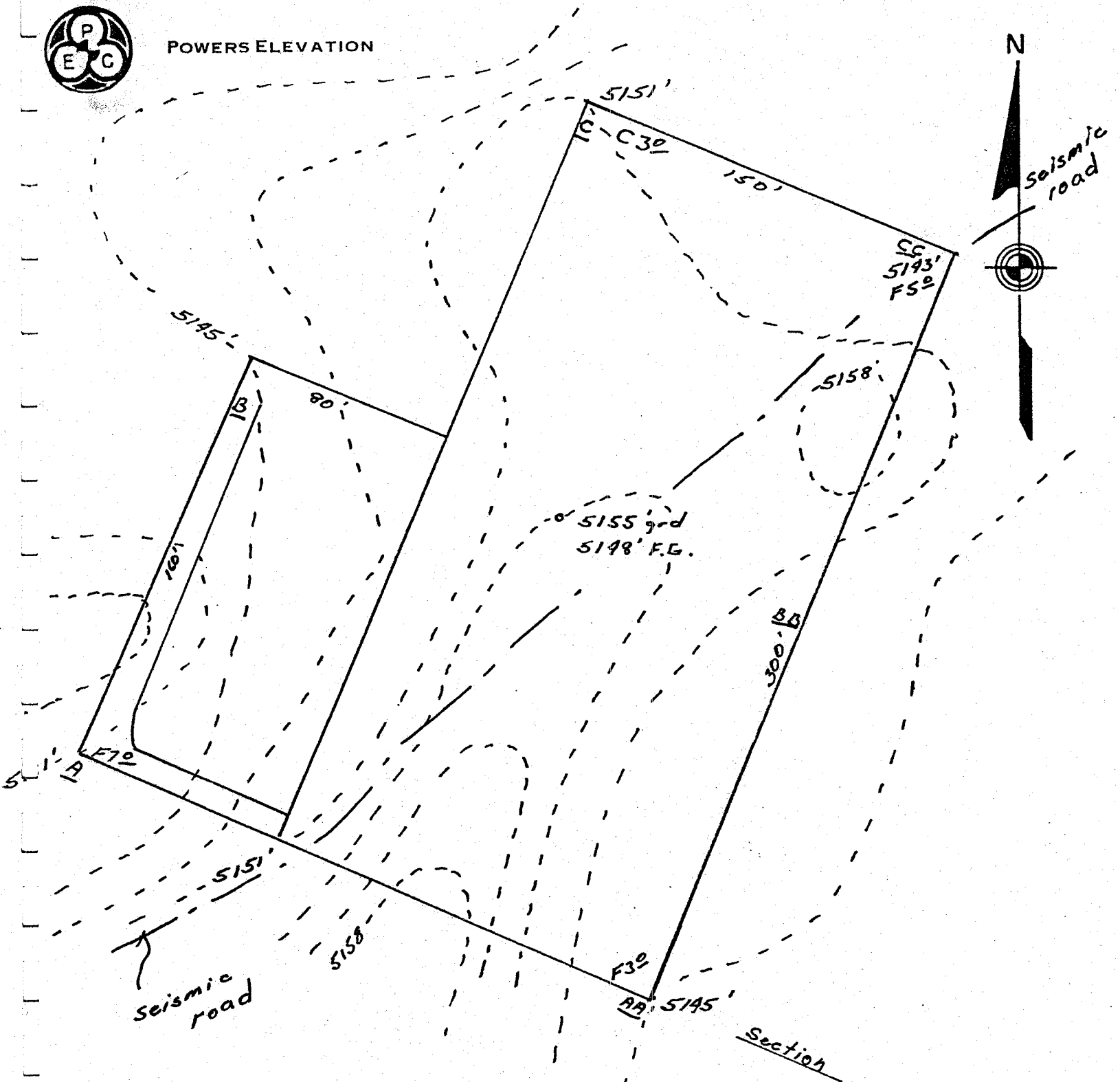


Diagram #2  
Well Pad Layout  
Patrick Petroleum Corp.  
Nancy Canyon #1-28  
1080' FNL & 1170' FWL  
Sec. 28, T38S-R25E  
San Juan County, Utah



POWERS ELEVATION

Diagram #3

Cross Section of drill pad with cuts  
& fills

Patrick Petroleum Corp.

Nancy Canyon #1-28

1080' FNL & 1170' FWL

Sec. 28, T38S-R25E

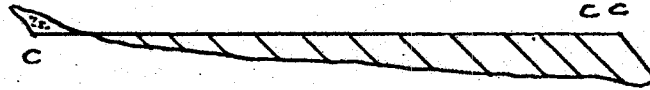
San Juan County, Utah

Horz. scale 1" = 50'

Vert. scale 1" = 30'

cut

fill



5148'

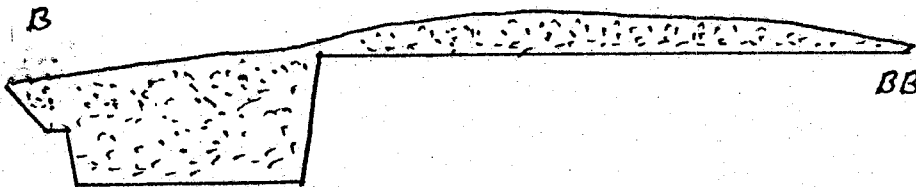
30'

0'

30'



Final Finish Grade will  
be adjusted to balance  
dirt work.

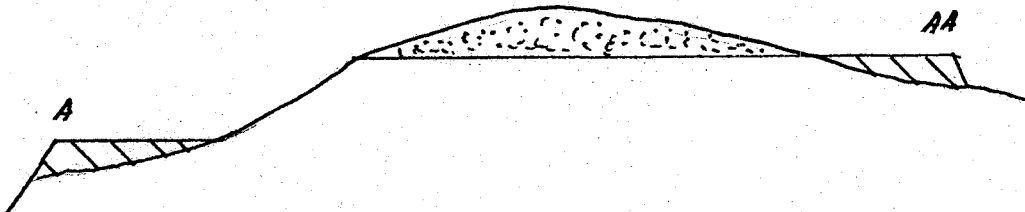


5148'

30'

0'

30'

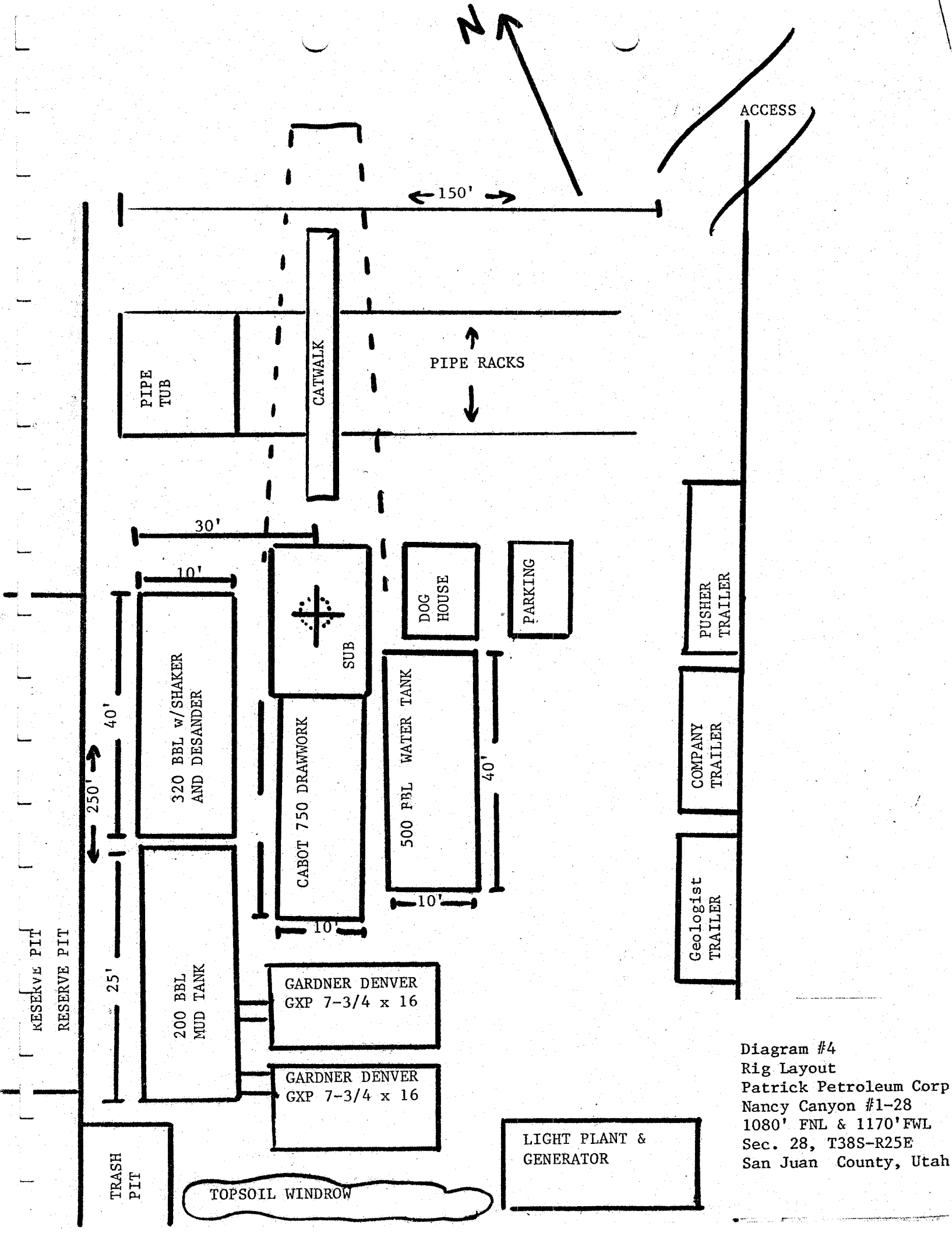


5148'

30'

0'

30'





RIG #75

RIG INVENTORY

Cabot 750 series with 112' - 300,000# Pemco Derrick, Powered by 2 - 8V71T  
Detroit Engines (700 HP). Mounted on six axle carrier. Self-propelled.

Drawworks.....Cabot 2042

Substructure.....12' High (Clear) 400,000#

Rotary Table.....Ideco 27<sup>1</sup>/<sub>2</sub>"

Swivel.....Brewster 65X - 220 Ton

Kelly.....40' X 4<sup>1</sup>/<sub>2</sub>" Square

Kellycock.....TIW 3,000#

Pump #1.....Gardner-Denver GP-G X P 16V71T (700 HP)  
#2.....Gardner-Denver GP-G X P 16V71T (500 HP)

Mud Tanks.....Steel (2) 500 BBL Total Storage

Shaker.....Swaco Double

Desander.....Swaco 8 Cone

Mud Mixing System #1.....6 X 8 Mission Magnum Centrifugal with  
6V53 GMC  
#2.....5 X 6 Mission Magnum Centrifugal with  
4V71 GMC

Blocks.....Ideco 4 Sheave 160 Ton

Generators #1.....100 KW with 8V71 GMC  
#2.....100 KW with 8V71 GMC

Drill Pipe.....4<sup>1</sup>/<sub>2</sub>" Full Hole Grade "E" 16.60#

Drill Collars.....16 - 6<sup>1</sup>/<sub>4</sub>" X 2<sup>1</sup>/<sub>4</sub>"

Water Storage.....500 BBL

Fuel Storage.....12,000 Gallons (1-10,000 Gallon Tank &  
1-2,000 Gallon Tank)

BOP's.....Shaffer 10" 3000 with Pipe and CSO Rams

Closing Unit.....ValvCon 50 Gallon

Tongs.....BJ Type "B"

Valve choke manifold with positive and adjustable choke.

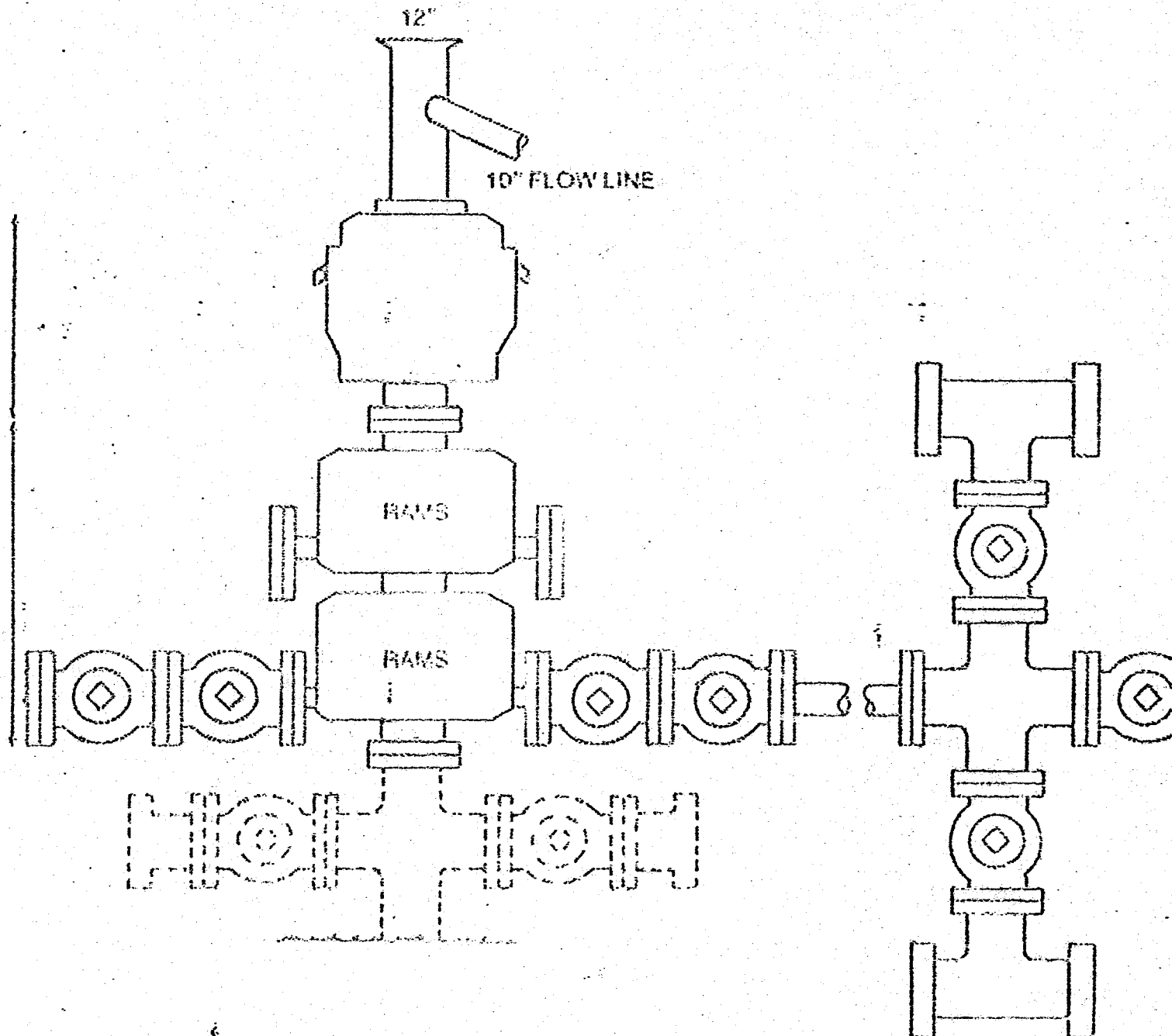
Boiler or hot air heater if needed.

Allied Equipment: Catwalk, pipe racks, dog house, change house, trailer house.

BOP DIAGRAM

BOP AND CHOKE MANIFOLD

Patrick Petroleum Corp.  
Nancy Canyon #1-28  
1080' FNL and 1170' FWL  
Sec. 28, T38S - R25E  
San Juan County, Utah



SERIES 13" X 3000 with positive and adjustable choke

## WELL PROPOSAL

Prospect Name: Nancy Canyon Elevation: GL 5155'  
Well Name & No.: Nancy Canyon 1-28 Projected TD: 6000'  
Location: 1080' FNL & 1170' FWL, Sec. 28, Prime Objective: Desert Creek  
County & State: San Juan, T38S, R25E, Utah Secondary Objective: Upper Ismay

Est. Formation Tops: Drlr. Rel. S. Sample Program:  
Navajo 934 +4236 4000'-5000' 10' Samples  
Kayenta 1259 +3911 5000' - TD 5' Samples  
Wingate 1472 +3698 Mud Logger:  
Moenkopi 2571 +2599 4000' to TD  
De Chelly 2766 +2404  
U. Hermosa 4581 + 589 Logging Program:  
U. Ismay 5620 - 450 GR-Sonic Integrated Surf. csg.-TD  
L. Ismay 5740 - 570 Dual Induction " " "  
T. Desert Creek 5802 - 632 CNL-FDC-GR 4000'-TD  
B. Desert Creek 5903 - 733  
TD 6000 - 830

CORES:	Fm.	Depth	DST:	Fm.	Depth
	<u>Desert Creek</u>	<u>5798 (60')</u>		<u>U. Ismay</u>	<u>5576</u>
				<u>Desert Creek</u>	<u>5757</u>

## DRILLING PROGRAM

Hole Size	Interval
<u>17 1/2"</u>	<u>0-300'</u>
<u>7 7/8"</u>	<u>300'-6000'</u>

## CASING PROGRAM

Size	Interval	Weight	Grade
<u>13 3/8"</u>	<u>0-300'</u>	<u>48#/Ft.</u>	
<u>4 1/2"</u>	<u>0-6000'</u>	<u>10.5# &amp; 11.6#/Ft.</u>	<u>J-55</u>

## MUD PROGRAM

Interval	Type	Weight	Viscosity	WL	% Oil	LCM	Other

## PATRICK PETROLEUM PERSONNEL:

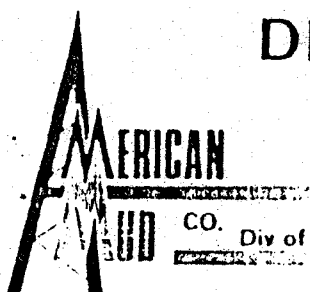
Kenneth C. Scott 303-674-7846

David W. Abrahamson 303-794-7453

Paul W. Adam 303-973-8402

ENGINEERING: LeClair-Westwood, Inc.WELL SITE GEOLOGY: Kenneth C. Scott

## ADDITIONAL INFORMATION:



# DRILLING FLUIDS PROGRAM

## DEPTH INTERVAL

Surface Casing Depth - Top of DeChelly

MUD TYPE: Low Solids, Light Mud Up

In order to protect sensitive shales and insure proper hole cleaning, a controlled mud system is recommended after drilling out of surface casing.

Clean the pits, lower calcium content to 150 or less, and mud up with an Ace-Ben, low solids, non-dispersed system. This highly shear thinning system is chosen because it has a minimum of solids (for penetration rate), with minimum viscosity at the bit, and a maximum annular viscosity (for hole cleaning).

The use of Ace-Ben will extend the yield of bentonite while selectively flocculating low yield native solids. Ace-Ben should be added at a rate of 1 sack per 6 sacks of bentonite for maximum effectiveness. Maintain the minimum viscosities required for proper hole cleaning.

Caustic Soda should be used to control pH at approximately 9.5. Cypan or CMC may be used to control filtration at the desired level. Use Soda Ash to maintain calcium at 150 or less. If high viscosities and gels become a problem, small additions of Rayvan or Petro-Lig may be needed.

Drilling with high filtrates (13-15) may be acceptable, but should be lowered (10-12) if sensitive shales become a problem.

Desanders and desilters should be run continuously to avoid excess mud weights and high mud costs due to solids build-up.

## Recommended Fluid Properties:

<u>Mud Weight</u>	<u>Funnel Viscosity</u>	<u>Filtrate</u>	<u>pH</u>	<u>Calcium</u>
8.7 - 8.9	32 - 35	10 - 15	9.0 - 9.5	150 or less

Estimated Drilling Time: 5 Days

Estimated Interval Mud Cost: \$4,000.00



# DRILLING FLUIDS PROGRAM

CO. Div of PETRO CHEM, INC.

## DEPTH INTERVAL

DeChelly - 10

In order to suspend barite and tolerate salt and gypsum contamination, a dispersed mud system is recommended at this depth.

Begin dispersing the mud with Petro-Lig and Rayvan and supplement filtration control with Drispac.

Maintain the fluid loss below 10 cc's to prevent shale problems and stuck pipe.

If a salt water flow is encountered, increasing the mud weight may be necessary and more Rayvan will be necessary to prevent flocculated mud.

Formations containing gypsum may be anticipated in the Ismay causing high viscosities, gels, and loss of filtration control. Treat the bad effects of this contaminant by using Soda Ash to remove excess calcium, adjust rheology with Petro-Lig and Rayvan, and lower filtration with Drispac.

Pressures requiring mud weight increases are anticipated in the Ismay and higher pressures are expected in the Desert Creek. Flow check all drilling breaks and monitor gas at the surface to determine if higher mud weights are needed.

Offset wells near the Nancy Canyon Prospect used mud weights up to 11.4 ppg at TD and wells near the Black Rock Canyon Prospect used weights up to 10.2 for this test.

## Recommended Fluid Properties:

<u>Mud Weight</u>	<u>Funnel Viscosity</u>	<u>Filtrate</u>	<u>pH</u>	<u>Calcium</u>
8.9 - 11.4	35 - 45	6 - 10	9.5 - 10.0	150 or less

Estimated Drilling Time: 18 Days

Estimated Interval Mud Cost: \$17,800.00 for the Black Rock Canyon Prospect

\$25,800.00 for the Nancy Canyon Prospect

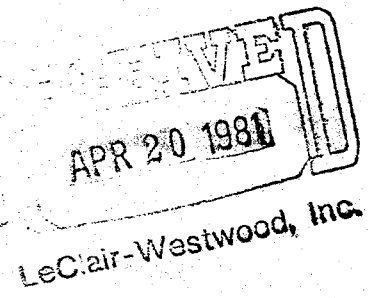


POWERS ELEVATION

OIL WELL ELEVATIONS AND LOCATIONS  
CHERRY CREEK PLAZA, SUITE 1201  
800 SOUTH CHERRY STREET  
DENVER, COLORADO 80222  
PHONE NO. 303/321-2217

April 16, 1981

Ms. Lisa Green  
Patrick Petroleum  
c/o LeClair Westwood, Inc.  
388 Denver Club Building  
Denver, CO 80202



Dear Ms. Green:

Enclosed is the cultural resource survey report for the following Patrick Petroleum location:

✓ Nancy Canyon Prospect #1

A BLM Class-III pedestrian survey and an inspection of existing records were performed for this location by Powers Elevation. Our file search revealed three previously recorded sites (42SA9250, 42SA8043, 42SA2871) in the project area.

During our field investigation, one isolated find and one site (48SA10146) were located. The proposed well pad was relocated to avoid the site. Therefore, we recommend that the project be allowed to proceed.

If you have any questions regarding this report, please contact this office.

Sincerely,

*Marcia J. Tate*

Marcia J. Tate  
Principal Investigator  
Assistant Manager, Heritage

MJT:dc

cc: BLM, San Juan Resource Area  
BLM, Moab, UT  
Dr. David Madsen, State Archaeologist  
Richard Fike, BLM State Archaeologist  
Melvin T. Smith, SHPO  
Fred Frampton, District Archaeologist, Richfield, UT

enclosures

Summary Report of  
Inspection for Cultural Resources

BLM Report ID No.

Report Acceptable Yes ☐ No ☐

Mitigation Acceptable Yes ☐ No ☐

Comments: \_\_\_\_\_

Report Title NANCY CANYON PROSPECT #1

Development Company Patrick Petroleum Corporation

Report Date 04/12/1981

4. Antiquities Permit No. 80-UT-033

Responsible Institution POWERS ELEVATION County San Juan

Fieldwork Location: TWN 38S Range 25E Section(s) 28  
TWN 78 Range 82 Section(s) 86 87 88 89 90 91 92 93  
Resource Area SJ TWN 94 Range 98 Section(s) 102 103 104 105 106 107 108 109

PO=PONY EXPRESS, BR=BEAR RIVER, PR=PRICE RIVER, WS=WARM SPRINGS  
BC=BOOK CLIFFS, HR=HOUSE RANGE, SE=SEVIER RIVER  
HM=HENRY MOUNTAINS, BE=BEAVER RIVER, DX=DIXIE  
KA=KANAB, ES=ESCALANTE, SJ=SAN JUAN, GR=GRAND  
SR=SAN RAFAEL, DM=DIAMOND MOUNTAIN

Fill in spaces 65, 69, 81, 85, 97, 101 Only  
V=Vernal Meridian  
H=Half Township

Description of Examination Procedures: A series of 15 meter wide north/south transects were walked to survey the proposed, staked 1.7 acre well pad and an 8.3 acre buffer zone surrounding it. The access road was surveyed from the point where Brian O'Neil (Powers Elevation) had surveyed, near the center of Section 29, west to the drill location, observing a corridor width of 15 meters. The alternate access was also observed at a corridor width of 15 meters. This route traverses in an easterly direction from an existing upgraded road in (continued)

3. Linear Miles Surveyed and/or 112 117

10. Inventory Type I

R=Reconnaissance  
I=Intensive  
S=Statistical Sample

Definable Acres Surveyed and/or 118 123

\* Legally Undefinable Acres Surveyed 24

(\*A parcel hard to cadastrally locate i.e., center of section)

1. Description of Findings (attach appendices, if appropriate) 12. Number Sites Found: 11  
An isolated projectile point was found along the alternate access road. This point was found within the graded portion of a seismic road, so its exact provenience is unknown. It was recorded and collected. Archaeological site 42SA10146 was found during this investigation, and lies in the vicinity of the drill pad. This site is a large, lithic quarry which nearly encircles the location of the proposed well pad. The site does not extend onto the pad.

4. Actual/Potential National Register Properties Affected: Site 42SA10146 has scientific value as it permits the evaluation of a lithic procurement source that was probably used for a long period of time. The materials from the site probably occur in many of the archaeological sites in the surrounding area.

5. Conclusion/Recommendations: The well pad was moved from its preferred location, approximately 300 feet to the east during the initial engineering and archaeological survey. In this manner, archaeological site 42SA10146 was avoided. The potential for finding buried cultural remains is rather low, due to the shallowness of the soils in the area. Should cultural remains be uncovered during the construction of the well pad and access, construction activities should cease, and the Manager of the San Juan Resource Area, Moab (continued)

6. Signature and Title of Institutional Officer Responsible Marcia J. Tate  
Principal Investigator

Note: Include only requested information in numbered spaces.

\* For extra locationals use additional 8100-3 forms.

CONTINUATION SHEET

#8 Nancy Patterson Canyon, to the proposed well pad. Both routes follow an existing graded seismic road. A file search was conducted on April 1, 1981, with the Bureau of Land Management, San Juan Resource Area. This search revealed two sites in Section 28 (42SA9250, 42SA8043) and one site (42SA2871) in Section 29.

#15 District, must be notified immediately.

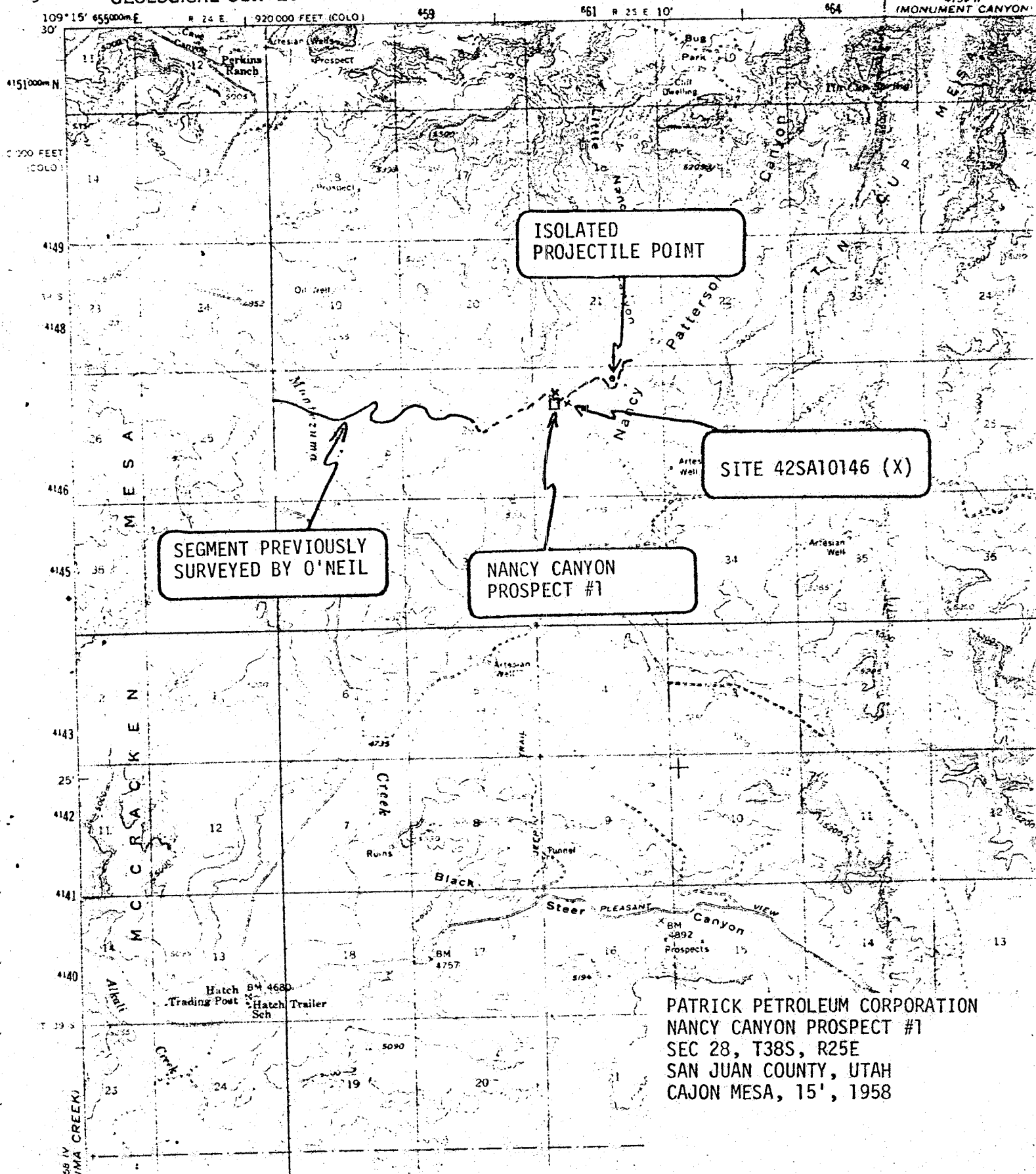
ADDITIONAL OBSERVATION:

Patrick Petroleum is proposing the construction of a 300 by 250 foot (1.7 acres) well pad and a 2.5 mile access road to this location. At the request of surface protection personnel at the Bureau of Land Management, San Juan Resource Area, an alternate access, approximately one mile in length was also surveyed to determine whether cultural resources would be threatened by construction activities. Approximately two miles of the longer access were previously surveyed for Patrick Petroleum by Powers Elevation personnel in January of 1981 (O'Neil 1981). Including a ten acre area around the proposed drill pad and a fifty foot wide access corridor, approximately 18.6 acres were investigated in total.

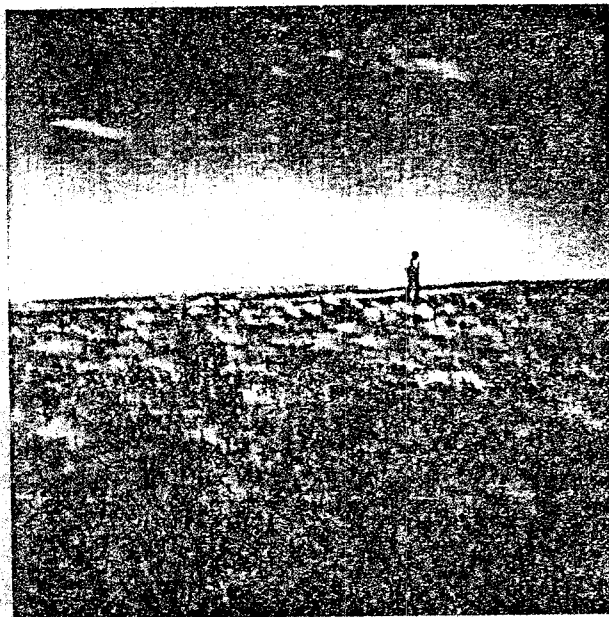


UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

UNITED STATES  
ATOMIC ENERGY COMMISSION  
MONUMENT CANYON



Patrick Petroleum Corporation  
Nancy Canyon Prospect #1  
Section 28, T38S, R25E  
San Juan County, UT



View southeast of Patrick  
Petroleum Nancy Canyon  
Prospect #1.

HERITAGE DIVISION  
CULTURAL RESOURCE RECORD

SITE

XX ISOLATED FIND



POWERS ELEVATION

1. CULTURAL RESOURCE CATEGORY:

XX Prehistoric Historic Multi-component Other (specify)

2. RECORDED BY: Fred P. Frampton DATE: 04/01-02/81 PERMIT NO. 80-UT-033

SITE STATUS

3. NATIONAL REGISTER STATUS:

STATE REGISTER STATUS:

listed  
probably eligible  
XX probably not eligible  
eligibility indeterminate

listed  
probably eligible  
XX probably not eligible  
eligibility indeterminate

\*justify evaluation (use continuation sheet) The projectile point was recovered from the surface in disturbed soil along the graded road.

PROJECT IDENTIFICATION

4. SITE REFERENCE:

Site Name Site No. Field No. IF #1

Project Name Patrick Petroleum Nancy Canyon Prospect #1

Landowner Status Moab District, San Juan Resource Area

Federal (Specify agency) BLM State County Indian Private

LOCATION

State Utah County San Juan PM

Quad Name & Series Cajon Mesa 7.5' 15' year 1958

Other maps Elevation (ft.) 5200

T 38 N, R 25 W, ft. F L, ft. F L, 1/4 1/4 NW 1/4 NE 1/4 of

Section 28, UTM Zone 12 Easting 661350 Northing 4147100

5. ACCESS: foot car 4-wheel drive, X fencing? signs?  
Directions to Site (include nearest roads, community, direction, etc.):  
North two miles from Hatch Trading Post, end of pavement east across Montezuma Creek 2.5 miles, north up Nancy Patterson Canyon 1.5 miles, then west along existing seismic road .1 mile in sharp bend in seismic road.

ATTACH A PHOTOCOPY OF USGS QUAD MAP, SHOWING SITE OR ISOLATED FIND CLEARLY

\*\* Write in narrative form using complete grammatical sentences.

## ENVIRONMENTAL DATA

6. Elevation 5200 ft. 1584 meters (x.0348)
7. Soil Type (include color, texture, depth, etc):  
On-site tan sand, 15 cm in depth  
Surrounding Site \_\_\_\_\_
8. Ground Visibility none fair good xx excellent 15 %cover
9. Vegetation (General type in area; Life zones, Community, habitat, etc):  
On-site Pinion juniper woodland, including juniper, sagebrush, snakeweed, grasses, mormon tea and greasewood  
Surrounding site \_\_\_\_\_
10. Contemporary fauna: \_\_\_\_\_  
\_\_\_\_\_ observed \_\_\_\_\_ tracks \_\_\_\_\_ spore \_\_\_\_\_ call
11. Slope & direction (in degrees): \_\_\_\_\_ on-site \_\_\_\_\_ surrounding site
12. Exposure east open, \_\_\_\_\_ sun direction \_\_\_\_\_ wind direction  
(N, S, E, W, Etc)

13. Primary Landform check one check appropriate box(s)

TOPOGRAPHY/  
LANDFORM

	Mountains																		
	Hill																		
	Plain																		
	Valley																		
XX	Canyon																		
		cliff	outcrop	cave/shelter	fan/delta	alluvial/ colluvial plain	talus	moraine	mound	stream terrace	stream bed	flood plain	playa	marsh	shore/beach	island	badlands		
							X												
		DEPOSITIONAL ENVIRONMENT																	

## DEPOSITIONAL ENVIRONMENT

14. Topographic location

Top/Crest/Peak	Foot/Bottom/Base	Rim
Edge	Saddle/Pass	Cutbank
XX Slope/Side	Bench/Ledge	

15. Description of Physiography (include bedrock and local outcrops):

On slopes of Nancy Patterson Canyon.

\*\*Water: Direction to: 1 mile Distance to permanent water: 2 miles/ m

Type/Name Montezuma Creek and Cross Creek

Distance to Nearest Other water: \_\_\_\_\_

# SITE SKETCH MAP

Indicate site boundaries and features and all major topographic features, permanent modern features, and vegetation zones. Give distances and directional data and include north arrow and scale.

isolated projective point.

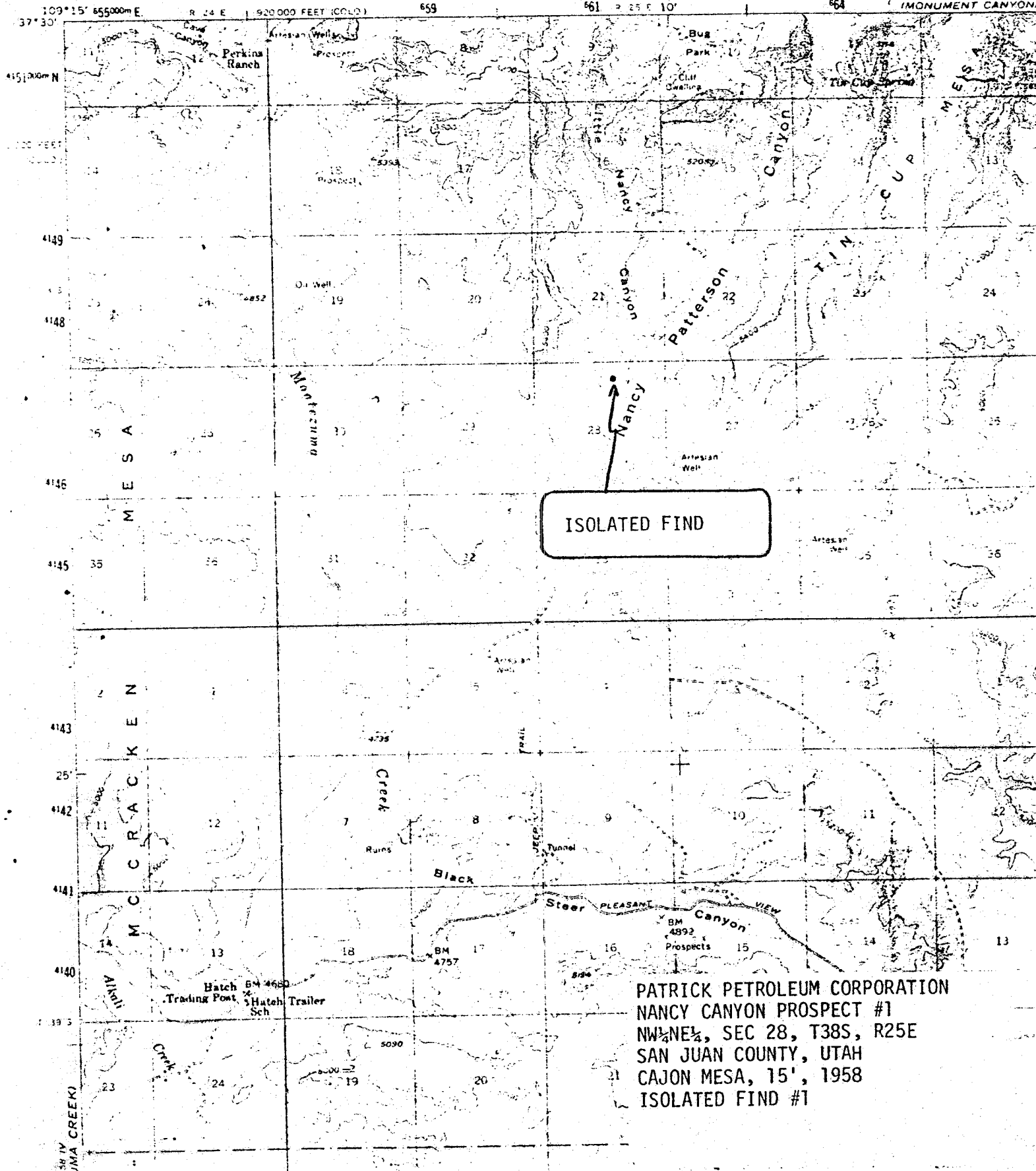


CORTEX

ton quartzite

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

UNITED STATES  
ATOMIC ENERGY COMMISSION



PATRICK PETROLEUM CORPORATION  
NANCY CANYON PROSPECT #1  
NW 1/4, SEC 28, T38S, R25E  
SAN JUAN COUNTY, UTAH  
CAJON MESA, 15', 1958  
ISOLATED FIND #1

2. County San Juan  
3. Temp. No. Paleontologic  
4. Class: XPrehistoric Historic  
5. Cultural Site Type (interpreted function): Lithic Quarry  
6. Paleontological Site Type: Invertebrate; Vertebrate; Flora  
7. Elevation [I/11-15] 5120 ft. X.3048 = 1560 m.  
elevation source: See Item #10.  
8. UTM Grid: [I/16-30] zone 12; 660 750 m E; 4146120 m N  
9. [II/1-16] SE of NW of NW of Section 28 T. 38S, R. 25E  
10. Map Reference: Cajon Mesa Series: 15' Date: 1958  
11. Aerial Photo Data: \_\_\_\_\_  
12. Site Location: North two miles from Hatch Trading Post, end of pavement east across Montezuma Creek. 2.5 miles, north up Nancy Patterson Canyon 1.5 miles. Then west along existing seismic road 0.6 miles to crest of ridge. Site just below ridge top in lens of chert materials.  
13. Land Owner [II/17-18]: Bureau of Land Management.  
BLM District/Forest [II/19]: MOAB District, San Juan Resource Area.  
14. Site Name/Previous Designations: \_\_\_\_\_  
15. Description of Site: The site is a quarry, consisting of large amounts of gray and brown chert, which partially encircles a hill on a long ridge. Excellent to poor quality cherts occur in a lens which encircles about two meters below the top of a ridge. Where chert is of good quality, flakes occur in great profusion and where quality is not good, there is a high degree of angular debris.

16. Artifacts:	Artifacts	CLASS	TYPE	QUANTITY
should be described/drawn on a continuation sheet and their locations plotted on the site map.		Ceramics [III/10-21]		
		Proj Pnt [III/1-9]		
		Gnd Stn [II/22-29]		
		Glass [II/22-29]		
		Metal [II/22-29]		
		Nails [II/22-29]		
		Cans [II/22-29]		
		Wood [II/22-29]		
		Other [II/22-29]		
CLASS QUANTITY				
Debitage [II/30]	<u>X</u>			
Bifaces [III/1-9]	<u>1</u>			
Scrapers [III/1-9]				
Utilized Flakes				

Description: A single, large, biface fragment was found on the east side of the site.

17. Non-Structural Features: (describe and locate on site map) [III/22-27]

<u>hearth/firepit (HE)</u>	<u>rubble mound (RM)</u>	<u>earthen mound (EM)</u>	<u>trail/road (TR)</u>
<u>midden (MD)</u>	<u>stone circle (SC)</u>	<u>burial (BU)</u>	<u>RR grade (RG)</u>
<u>depression (DE)</u>	<u>rock alignment (RA)</u>	<u>pictograph (PI)</u>	<u>tram way/road (TW)</u>
<u>water control (WC)</u>	<u>mine tailings (MT)</u>	<u>petroglyph (PE)</u>	<u>other (OT)</u>

Description: Two large boulders on the site, which provide some shelter. Few flakes in one but little evidence of use. No stratigraphic depth beneath boulders.

18. Structural Features: (describe and locate on site map) [III/28-IV/6]
- | CLASS       | MATERIAL | QUANTITY | CLASS    | MATERIAL | QUANTITY |
|-------------|----------|----------|----------|----------|----------|
| Single rm   |          |          | Tower    |          |          |
| Multiple rm |          |          | Cairn    |          |          |
| Granary     |          |          | Corral   |          |          |
| Cist        |          |          | Dugout   |          |          |
| Pithouse    |          |          | Kiln     |          |          |
| Kiva        |          |          | Monument |          |          |
| Well        |          |          | Mine     |          |          |

Description: \_\_\_\_\_

19. Cultural Affiliation [IV/7-14]: Mesa Verde Anasazi  
How Determined? Geographical location.  
20. Site Dimensions: 200 m X 100 m; Area [IV/17-21]: 20,000 sq m  
21. Were surface artifacts collected? X Yes; No; [IV/22] If yes, attach a continuation sheet describing sampling method used.  
22. Estimated depth of fill [IV/23]: 10 cm  
Subsurface test? X Yes; No (Include location of test on site map)  
Description:  
23. Site Condition [IV/25]: X Excellent; Good; Fair; Poor  
Agent of Impact:  
24. Nat. Register Potential [V/11]: X Significant (C); Non-Significant (D)  
Justification: Potential for analysis of lithic procurement source. Aid in determination of area of distribution.

25. Research Potential:  
26. Recommended Mitigation: Avoid  
27. Direction/Distance to Permanent Water [V/5-10]: 3200 / m  
Type/Name of Water Source [V/11]: Montezuma Creek  
Distance to nearest other Water Source [V/2-4]: 5000 meters  
Type of other water source: Spring  
Distance to Cultivable Soil [V/12-14]: N/A  
28. Topographic Location (check one under each heading) [V/15-18]

PRIMARY LANDFORM	POSITION ON LANDFORM	DEPOSITIONAL ENVIRONMENT	SECONDARY POSITION
<u>mountain spine (A)</u>	<u>top/crest/peak (A)</u>	<u>fan (A)</u>	<u>marsh (L)</u>
<u>hill/butte (B)</u>	<u>edge (B)</u>	<u>X talus (B)</u>	<u>landslide/slump (M)</u>
<u>tableland/mesa (C)</u>	<u>X slope (C)</u>	<u>dune (C)</u>	<u>delta (N)</u>
<u>X ridge (D)</u>	<u>toe/foot/bottom (D)</u>	<u>stream terrace (D)</u>	<u>island (O)</u>
<u>valley (E)</u>	<u>saddle/pass (E)</u>	<u>plays (E)</u>	<u>cliff (P)</u>
<u>plain (F)</u>	<u>bench/ledge (F)</u>	<u>shore feature</u>	<u>outcrop (Q)</u>
<u>canyon (G)</u>	<u>rimrock (G)</u>	<u>extinct lake (F)</u>	<u>stream bed (R)</u>
	<u>interior (H)</u>	<u>extant lake (C)</u>	
		<u>alluvial plain (H)</u>	
		<u>coluvium (I)</u>	
		<u>moraine (J)</u>	
		<u>flood plain (K)</u>	

Description: The site is on the upper slope of a long ridge just below a sandstone cap.

29. Degree/Aspect of slope [V/19-23]: 10-15% north and east.  
30. Vegetation COMMUNITY and association [V/24-25]:

<u>ALPINE GRASSLAND (AA)</u>	<u>YELLOW PINE-OAK (DZ)</u>	<u>COLD DESERT SHRUB (FZ)</u>	<u>SALT DESERT SHRUB (GZ)</u>	<u>WARM DESERT SHRUB</u>
<u>SPRUCE FIR (BZ)</u>	<u>ponderosa pine (DA)</u>	<u>sagebrush (FA)</u>	<u>greasewood (GA)</u>	<u>desert saltbrush</u>
<u>krumboltz (BA)</u>	<u>oakbrush (DB)</u>	<u>small sagebrush (FB)</u>	<u>greasewood-shadscl (GB)</u>	<u>creosote bush (H)</u>
<u>white fir-spruce (BB)</u>	<u>mountain brush (DC)</u>	<u>little rabbitbrush (FC)</u>	<u>seepweed (GC)</u>	<u>creosote/bursage</u>
<u>ASPEN DOUGLAS FIR (CZ)</u>	<u>maple (DD)</u>	<u>shadscale (FD)</u>	<u>pickleweed/samphire (GD)</u>	<u>joshua tree (ED)</u>
<u>limber pine (CA)</u>	<u>streamside (DE)</u>	<u>borebrush (FE)</u>	<u>saltgrass (GE)</u>	<u>MARSH COMMUNITY (G)</u>
<u>douglas fir (CB)</u>		<u>winter-fat (FF)</u>	<u>alkali sacaton (GF)</u>	
<u>lodgepole pine (CC)</u>	<u>PLAINS/PRAIRIE (EZ)</u>	<u>boy-sage/blkbrsh (FG)</u>	<u>rabbitbrush (GG)</u>	<u>ALKALI FLATS/MUD</u>
<u>bristlecone pine (CD)</u>	<u>grasslands (EA)</u>	<u>bud sagebrush (FH)</u>		<u>FLATS/DRY LAKE/</u>
<u>aspen (CE)</u>	<u>pinyon-juniper (EB)</u>	<u>mat saltbrush (FI)</u>		<u>WASTELAND (EZ)</u>
<u>streamside (CD)</u>	<u>streamside (EC)</u>	<u>gray molly (FJ)</u>		
<u>meadow grassland (CG)</u>		<u>streamside (FK)</u>		<u>CULTIVATED LAND (G)</u>

(Check COMMUNITY only if association cannot be determined)  
Description: In descending order of occurrence: Sagebrush, snakeweeds, grasses and greasewood. Juniper stands occur on the flanks of a mesa to the north.

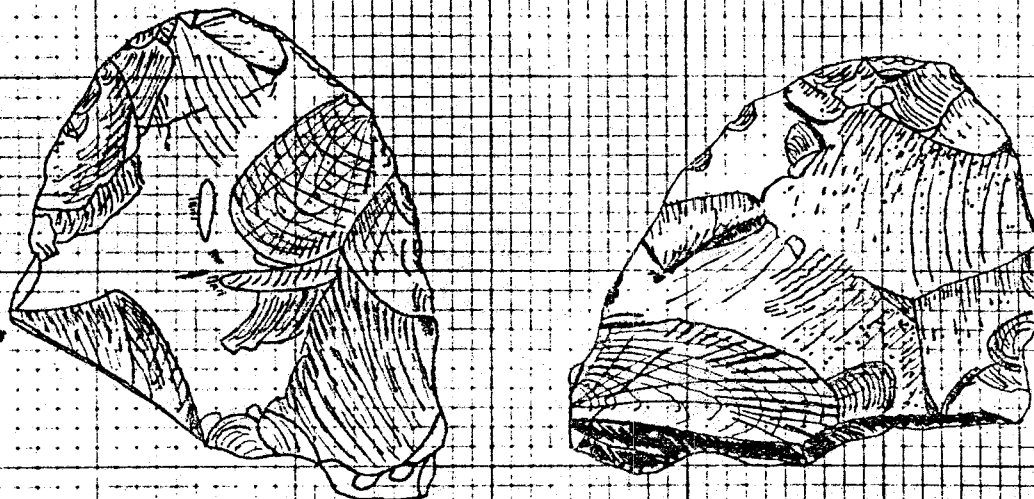
31. Next nearest plant association/distance:  
32. Photograph Numbers [V/26]:  
33. Recorded by: Fred P. Frampton  
Survey Org. [V/27-28]: Powers Elevation Date: April 4, 1981  
Assisting Crew Members:

34. Sponsoring Agency: Contract No.



## SITE SKETCH MAP

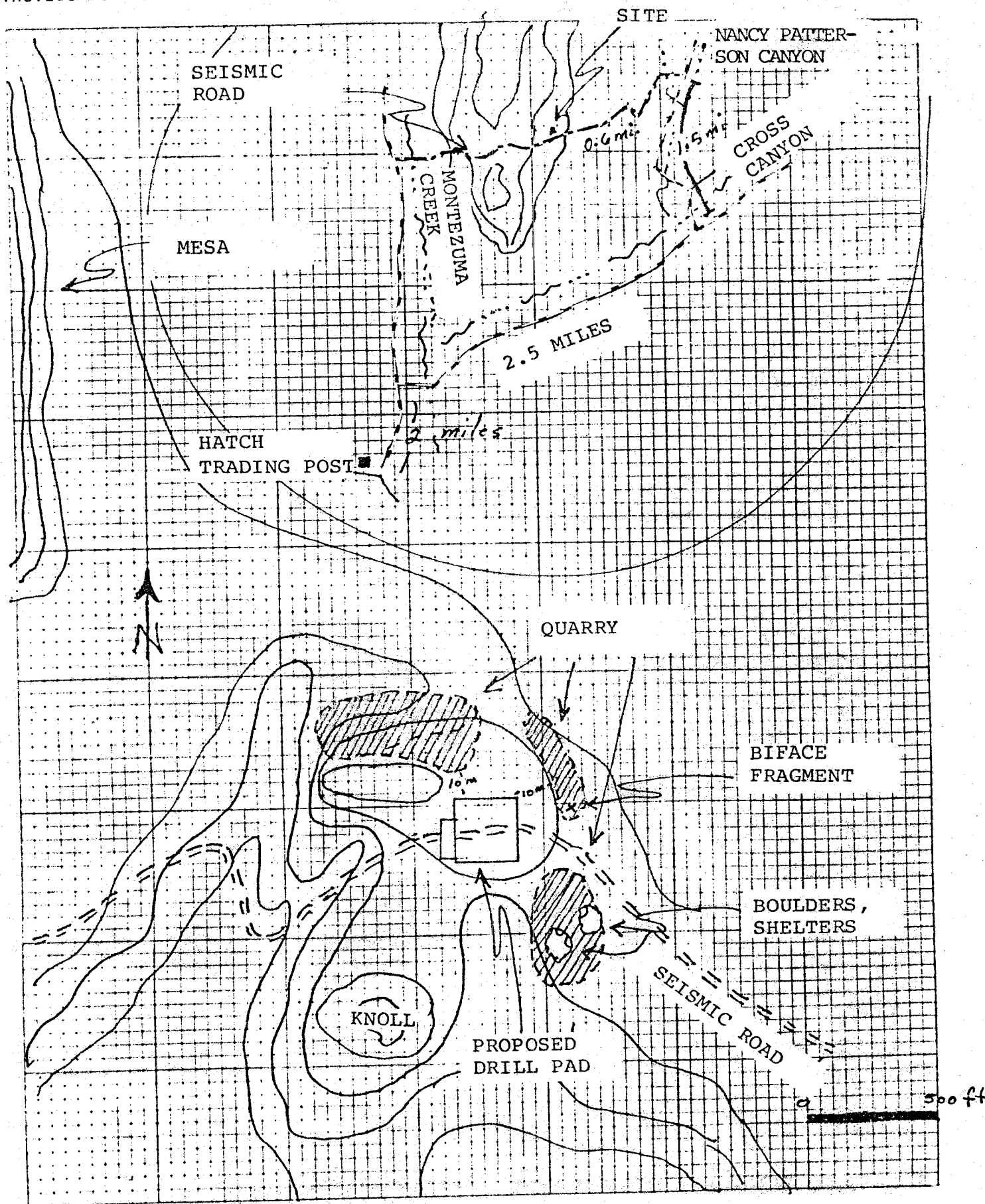
Indicate site boundaries and features and all major topographic features, permanent modern features, and vegetation zones. Give distances and directional data and include north arrow and scale.



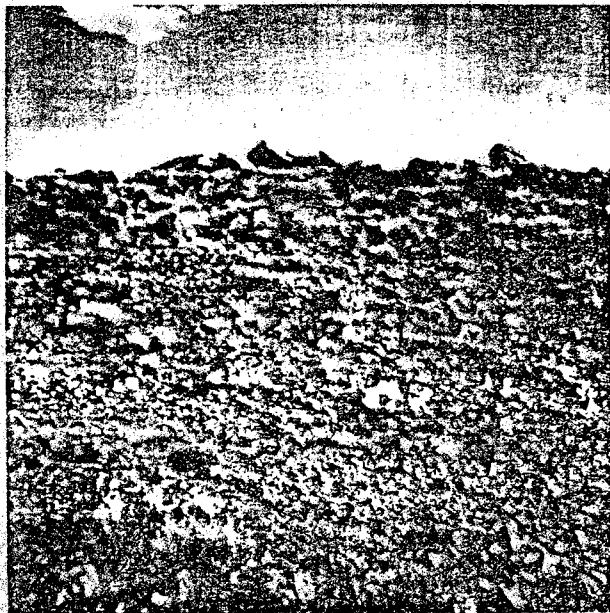
GREY-BROWN CHERT BIFACE

## SITE SKETCH MAP

Indicate site boundaries and features and all major topographic features, permanent modern features, and vegetation zones. Give distances and directional data and include north arrow and scale.



PATRICK PETROLEUM CORPORATION  
NANCY CANYON PROSPECT #1  
SE 1/4 NW 1/4, SEC 28, T38S, R15E  
SAN JUAN COUNTY, UTAH  
CAJON MESA, 15', 1958  
SITE 42SA10146



View south of 42SA10146.  
Note light colored rock  
is battered chert.



View south of 42SA10146. Note  
light colored rock is battered  
chert.

**EDMUNDSON, INC.**  
R.B. EDMUNDSON

MAILING ADDRESS:  
P. O. BOX 1707  
DENVER, COLORADO 80201  
303 629-1850

February 23, 1981

TO: COMMITTED WORKING AND ROYALTY INTEREST OWNERS

Re: Nancy Canyon Unit Area  
San Juan County, Utah


Ladies and Gentlemen:

Enclosed is copy of letter dated February 19, 1981, from the United States Geological Survey advising the Change of Operator from Southland Royalty Company to Patrick Petroleum Corporation of Michigan for the Nancy Canyon Unit Area is approved effective February 19, 1981.

Very truly yours,

EDMUNDSON, INC.

By

  
R. B. Edmundson

RBE:dwm  
Enclosure



# United States Department of the Interior

GEOLOGICAL SURVEY  
BOX 25046 M.S. 609  
DENVER FEDERAL CENTER  
DENVER, COLORADO 80225

IN REPLY REFER TO

FEB 19 1981

R. B. Edmundson  
Edmundson, Inc.  
P.O. Box 1707  
Denver, Colorado 80201

Re: Successor Unit Operator  
Nancy Canyon Unit  
San Juan County, Utah

Gentlemen:

On January 20, 1981, we received an indenture dated November 7, 1980, whereby Southland Royalty Company resigned as unit operator and unit operator for the Nancy Canyon unit agreement, San Juan County, Utah. The indenture was executed by both parties. The signatory instrument is hereby accepted effective as of February 19, 1981. Please advise all interested parties of the change in unit operator.

Sincerely yours,

Frank A. Salwerowicz  
Deputy Conservation Manager  
Oil and Gas Operations

Copy to: BLM-Salt Lake City, UT  
District Supervisor, Salt Lake City, UT



## Southland Royalty Company

Mr. James Fisher  
Deputy Conservation Manager  
Oil and Gas  
United States Geological Survey  
Mail Stop 609  
P. O. Box 25046  
Denver Federal Center  
Denver, CO 80225

Re: Nancy Canyon Unit Area  
San Juan County, Utah

### RESIGNATION OF UNIT OPERATOR

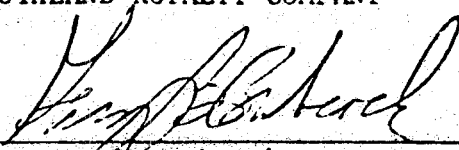
Southland Royalty Company, Unit Operator under the Unit Agreement for the Nancy Canyon Unit Area, County of San Juan, State of Utah, Contract Number 14-08-0001-18036, dated December 14, 1979 and approved effective December 21, 1979 by the United States Geological Survey, hereby respectfully resigns as Unit Operator under said Unit Agreement and under the Nancy Canyon Unit Operating Agreement, and requests a Successor Unit Operator be designated as provided in Section 6 of said Unit Agreement.

Dated this 7th day of November, 1980.

Very truly yours,

SOUTHLAND ROYALTY COMPANY

By

  
Gary B. Babcock  
Attorney-in-Fact

GBB:RBE:nct

C. P. 1001-18036

DESIGNATION OF SUCCESSOR OPERATOR  
NANCY CANYON UNIT AREA  
CONTRACT NUMBER 14-08-0001-18036  
SAN JUAN COUNTY, UTAH

THIS INDENTURE, dated 7<sup>th</sup> day of November, 1980,  
by and between Patrick Petroleum Corporation of Michigan, 950 - 17th  
Street, Suite 1655, Denver, Colorado 80202, hereinafter designated as  
"First Party" and the other owners of the unitized working interests,  
hereinafter designated as "Second Parties".

W I T N E S S E T H :

WHEREAS, UNDER THE PROVISIONS OF the authority vested in the Secretary  
of the Interior, under the act approved February 25, 1920, 41 Stat. 437,  
as amended, of the Geological Survey (33 F. R. 5812), on December 22,  
1967, the Oil and Gas Supervisor approved the Nancy Canyon Unit Agreement,  
Contract Number 14-08-0001-18036, wherein Patrick Petroleum Corporation  
of Michigan is designated as Operator of the Unit Area; and,

WHEREAS, Southland Royalty Company has resigned as Unit Operator,  
and the designation of a Successor Unit Operator is now required pursuant  
to the terms thereof; and

NOW THEREFORE, in consideration of the premises hereinafter set  
forth, and the premises hereinabove stated, the First Party hereby  
covenants and agrees to fulfill the duties and assume the obligations of  
the Operator of the unitized area under and pursuant to all of the terms  
of the Nancy Canyon Unit Agreement, Contract Number 14-08-0001-18036 and  
the Second Parties covenant and agree that effective as of the date  
herein specified, and upon receipt of this indenture, properly executed  
by the Deputy Conservation Manager, First Party shall be granted the  
exclusive right and privilege of exercising any and all rights and  
privileges, as Operator, pursuant to the terms and conditions of said  
Unit Agreement, said Unit Agreement being hereby incorporated herein by  
reference and made a part hereof as fully and effectively as though said  
Agreement were expressly set forth in this instrument.

IN WITNESS WHEREOF, the parties hereto have executed this instrument  
as of the date hereinabove set forth.

FIRST PARTY

PATRICK PETROLEUM CORPORATION OF MICHIGAN

By Paul W. Fairchild  
Paul W. Fairchild  
Attorney-in-Fact

SECOND PARTIES

SOUTHLAND ROYALTY COMPANY

By \_\_\_\_\_  
Gary B. Babcock  
Attorney-in-Fact

\_\_\_\_\_  
Jack J. Grynberg

\_\_\_\_\_  
Celeste C. Grynberg

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) ss.

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day  
of \_\_\_\_\_, 19\_\_\_\_, by \_\_\_\_\_  
\_\_\_\_\_, President and by \_\_\_\_\_,  
\_\_\_\_\_, Secretary of \_\_\_\_\_  
\_\_\_\_\_ a corporation.

WITNESS my hand and official seal.

My Commission Expires:

\_\_\_\_\_  
Notary Public

Place of Residence:  
\_\_\_\_\_

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) ss.

On the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally  
appeared before me \_\_\_\_\_, the signer(s) of the above  
instrument, who duly acknowledged to me that he (she or they) executed the  
same.

WITNESS my hand and official seal.

  
\_\_\_\_\_  
Notary Public

My Commission Expires:

March 28, 1963

Place of Residence:  
\_\_\_\_\_



DESIGNATION OF SUCCESSOR OPERATOR  
NANCY CANYON UNIT AREA  
CONTRACT NUMBER 14-08-0001-18036  
SAN JUAN COUNTY, UTAH

THIS INDENTURE, dated 7th day of November, 1980,  
by and between Patrick Petroleum Corporation of Michigan, 950 - 17th  
Street, Suite 1655, Denver, Colorado 80202, hereinafter designated as  
"First Party" and the other owners of the unitized working interests,  
hereinafter designated as "Second Parties".

W I T N E S S E T H :

WHEREAS, UNDER THE PROVISIONS OF the authority vested in the Secretary  
of the Interior, under the act approved February 25, 1920, 41 Stat. 437,  
as amended, of the Geological Survey (33 F. R. 5812), on December 22,  
1967, the Oil and Gas Supervisor approved the Nancy Canyon Unit Agreement,  
Contract Number 14-08-0001-18036, wherein Patrick Petroleum Corporation  
of Michigan is designated as Operator of the Unit Area; and,

WHEREAS, Southland Royalty Company has resigned as Unit Operator,  
and the designation of a Successor Unit Operator is now required pursuant  
to the terms thereof; and

NOW THEREFORE, in consideration of the premises hereinafter set  
forth, and the premises hereinabove stated, the First Party hereby  
covenants and agrees to fulfill the duties and assume the obligations of  
the Operator of the unitized area under and pursuant to all of the terms  
of the Nancy Canyon Unit Agreement, Contract Number 14-08-0001-18036 and  
the Second Parties covenant and agree that effective as of the date  
herein specified, and upon receipt of this indenture, properly executed  
by the Deputy Conservation Manager, First Party shall be granted the  
exclusive right and privilege of exercising any and all rights and  
privileges, as Operator, pursuant to the terms and conditions of said  
Unit Agreement, said Unit Agreement being hereby incorporated herein by  
reference and made a part hereof as fully and effectively as though said  
Agreement were expressly set forth in this instrument.

IN WITNESS WHEREOF, the parties hereto have executed this instrument  
as of the date hereinabove set forth.

FIRST PARTY

PATRICK PETROLEUM CORPORATION OF MICHIGAN

By \_\_\_\_\_  
Paul W. Fairchild  
Attorney-in-Fact

SECOND PARTIES

SOUTHLAND ROYALTY COMPANY

By \_\_\_\_\_  
Gary B. Babcock  
Attorney-in-Fact

\_\_\_\_\_  
Jack J. Grynberg

\_\_\_\_\_  
Celeste C. Grynberg

STATE OF Colorado )  
 ) ss.  
COUNTY OF Denver )

The foregoing instrument was acknowledged before me this 10<sup>th</sup> day  
of November, 1980, by Gary B. Rubick,  
Attorney-in-Fact President and by \_\_\_\_\_,  
\_\_\_\_\_, Secretary of Southland Royalty  
Company a corporation.

WITNESS my hand and official seal.

My Commission Expires:

My Commission Expires Sept. 9, 1984

Thomas C. Grynberg  
Notary Public

Place of Residence:

Denver, Colo

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

On the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally  
appeared before me \_\_\_\_\_, the signer(s) of the above  
instrument, who duly acknowledged to me that he (she or they) executed the  
same.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public

My Commission Expires:

Place of Residence:

Jack J. Grynberg

Celeste C. Grynberg

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) ss.

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day  
of \_\_\_\_\_, 19\_\_\_\_, by \_\_\_\_\_  
\_\_\_\_\_, President and by \_\_\_\_\_,  
\_\_\_\_\_, Secretary of \_\_\_\_\_  
\_\_\_\_\_ a corporation.

WITNESS my hand and official seal.

My Commission Expires:

\_\_\_\_\_  
Notary Public

Place of Residence:

STATE OF Colorado )  
COUNTY OF Denver ) ss.

On the 15 day of January, 1981, personally  
appeared before me Jack J. & Celeste C. Grynberg, the signer(s) of the above  
instrument, who duly acknowledged to me that he (she or they) executed the  
same.

WITNESS my hand and official seal.

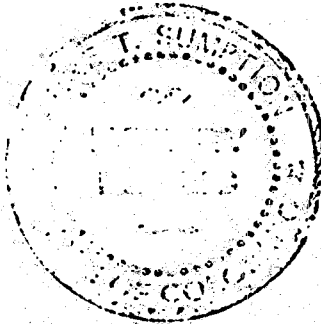
Anne T. Sumption  
Notary Public

My Commission Expires:

7-11-84

Place of Residence:

Denver, CO



2

\*\* FILE NOTATIONS \*\*

DATE: 5-5-81  
OPERATOR: Patrick Petroleum Corporation  
WELL NO: Nancy Canyon Unit #1-28  
Location: Sec. 28 T. 38S R. 25E County: San Juan

File Prepared: ☒

Entered on N.I.D: ☒

Card Indexed: ☒

Completion Sheet: ☐

API Number 43-037-30666

CHECKED BY:

Petroleum Engineer: \_\_\_\_\_

Director: \_\_\_\_\_

Administrative Aide: In Nancy Can. Unit - OK on  
bindrys. for oil & gas - full formations unitized.

APPROVAL LETTER:

Bond Required: ☐

Survey Plat Required: ☐

Order No. \_\_\_\_\_

O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception - company owns or controls acreage  
within a 660' radius of proposed site ☐

Lease Designation ☒

Plotted on Map ☐

Approval Letter/Written ☒

Hot Line ☒

P.I. ☒

1

May 26, 1981

Patrick Petroleum Corporation,  
LeCLAIR-WESTWOOD,+INC. - AGENT  
388 Denver Club Bldg.  
Denver, Colorado 80202

Re: Well No. Nancy Canyon Unit #1-28  
Sec. 28, T. 38S, R. 25E, NW NW  
San Juan County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer  
Office: 533-5771  
Home: 876-3001

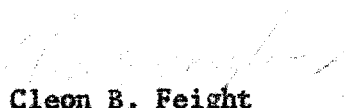
Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30666.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

  
Cleon B. Feight  
Director

CBF/ko  
cc: USGS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R14

5. LEASE DESIGNATION AND SERIAL NO.

U-104 28-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1.

OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR

PATRICK PETROLEUM CORPORATION - LeCLAIR-WESTWOOD, INC.-AGENT

3. ADDRESS OF OPERATOR

388 Denver Club Bldg. Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

1080' FNL and 1170' FWL

7. UNIT AGREEMENT NAME

NANCY CANYON

8. FARM OR LEASE NAME

NANCY CANYON

9. WELL NO.

#1-28

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 28, T38S - R25E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5155' GR

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

SUBSEQUENT REPORT OF:

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of start of proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

We propose to set a DV tool 150' below the Chinle formation on the 5-1/2" production casing and cement w/100 sx cement or sufficient quantity to cover the Chinle Formation as determined at the time of logging.

top of the Navajo

RECEIVED

JUN 8 1981

U. S. GEOLOGICAL SURVEY  
DURANGO, COLO.

RECEIVED

JUN 25 1981

"APPROVAL TO FARE GRABED GAS & MINING  
WHILE DRILLING AND TESTING."

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 7/21/81

BY: [Signature]

18. I hereby certify that the foregoing is true and correct

SIGNED

[Signature] TITLE

LeClair-Westwood, Inc. - Agent  
Para-Engineer

DATE 6/5/81

(This space for Federal or State office use)

APPROVED BY [Signature]  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED FOR A PERIOD  
NOT TO EXCEED 1 YEAR.

cc. Patrick Petroleum Corp

TITLE [Signature]

DATE 6/23/81

UTAH DIVISION OF OIL, GAS & MINING

1588 W. NORTH TEMPLE

SALT LAKE CITY, UT. 84116

\*See Instructions on Reverse Side

OPERATOR'S COPY

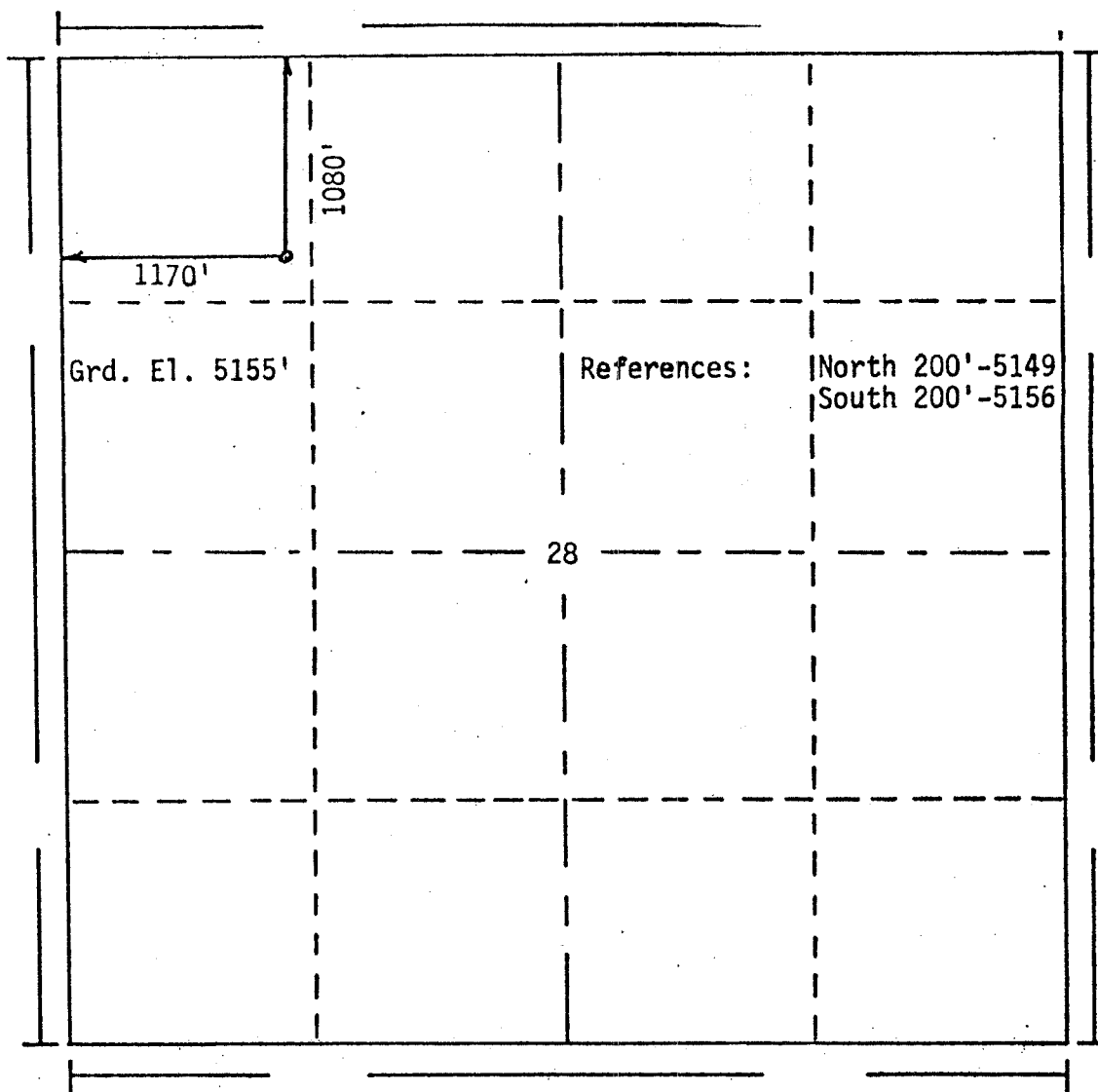


FORM F-106

Plat #1

Patrick Petroleum Corp.  
Nancy Canyon #1-28  
1080' FNL & 1170' FWL  
Sec. 28, T38S-R25E  
San Juan County, Utah

R. 25 E.



Scale... 1" = 1000'

**Powers Elevation of Denver, Colorado**  
has in accordance with a request from Lisa Green  
for Patrick Petroleum  
determined the location of #1 Nancy Canyon Prospect . .  
to be 1080' FNL & 1170' FWL      Section 28 Township 38 South  
Range 25 East      Salt Lake Meridian  
San Juan County, Utah

I hereby certify that this plat is an  
accurate representation of a correct  
survey showing the location of

Date: 1 April 1981

T. Nelson  
Licensed Land Surveyor No. 2711  
State of Utah

DIVISION OF OIL, GAS AND MINING

PLUGGING PROGRAM

303-565-3773

NAME OF COMPANY: Patrick Petroleum Corp

Le Clair Westwood  
Ray Singleton

WELL NAME: Nancy Canyon #1-28

SECTION 28 TOWNSHIP 38S RANGE 25E COUNTY San Juan

VERBAL APPROVAL GIVEN TO PLUG AND ABOVE REFERRED TO WELL IN THE FOLLOWING MANNER:

TOTAL DEPTH: 6010'

CASING PROGRAM:

FORMATION TOPS:

13 3/8" 61# @ 354' c1 'B' Cement to Surface	Navajo	992
12 1/2" open Hole to 3000'	Chinle	1705
7 7/8" open hole to TD	Shinarump	2584
	Moenkopi	2631
	De Chelly	2808
	U Hermosa	4646
	U Ismay	5696 (saltwater)
	L Ismay	5821
	Gothic Sh.	5873
	Desert Creek	5900-5974
	Akah	6000 ±

PLUGS SET AS FOLLOWS:

- 1) 6010-5660
- 2) 4700-4600
- 3) 2850-2750
- 4) 1800-1600
- 5) 1050-950
- 6) 400-300
- 7) 50-Surface

DST:

- 1) 5935-85 (60' mud)

CORES:

- 1) 5890-5950
- 2) 5950-5985

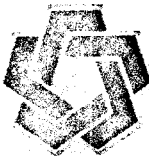
9.2#, 50 vis gel based abandonment mud between plugs; erect regulation dry-hole marker, clean, restore site.

DATE 8-19-81

SIGNED MTM

*M. J. Minder*





STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

February 4, 1982

Patrick Petroleum Corporation  
388 Denver Club Bldg.  
Denver, Colorado 80202

Re: Well No. Nancy Canyon Unit #1-28  
Sec. 28, T. 38S, R. 25E  
San Juan County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cari Furse  
Clerk Typist

TEN POINT COMPLIANCE PROGRAM  
OF NTL-6 APPROVAL OF OPERATIONS

PATRICK PETROLEUM  
NANCY CANYON #1-28  
1080' FNL and 1170' FWL  
Sec. 28, T38S - R25E  
San Juan County, Utah

1. The outcropping geologic formation is the Morrison Formation.
2. The estimated formation tops to be encountered are as follows:

<u>FORMATION</u>	<u>DEPTH</u>	<u>SUBSEA</u>
Navajo	934	+4236
Kayenta	1259	+3911
Wingate	1472	+3698
Moenkopi	2571	+2599
De Chelly	2766	+2404
U. Hermosa	4581	+ 589
U. Ismay	5620	- 450
L. Ismay	5740	- 570
T. Desert Creek	5802	- 632
B. Desert Creek	5903	- 733
T.D.	6000	- 830

3. The following depths are estimated for oil and gas bearing zones.

<u>SUBSTANCES</u>	<u>FORMATION</u>	<u>ANTICIPATED DEPTH</u>
Oil	U. Ismay	5620'
Oil	Desert Creek	5802'

4. a. The proposed casing program will be as follows:

<u>PURPOSE</u>	<u>DEPTH</u>	<u>HOLE SIZE</u>	<u>O.D.</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>TYPE</u>
Surface	0-300'	17-1/2"	13-3/8"	48#	K-55	ST & C (New)
Production	0-6000'	7-7/8"	4-1/2"	10.5# & 11.6#	K-55	LT & C and ST & C (New)

- b. The cement program will be as follows:

<u>SURFACE</u>	<u>TYPE AND AMOUNT</u>
Surf. to 300'	Class "B" Cement - 350 sx (Suffic. to circ.) 2% CaCl <sub>2</sub> - 1/4# cello-flake
<u>PRODUCTION</u>	<u>TYPE AND AMOUNT</u>
T.D. to 600' above zone of interest.	Class "B" w/2% gel - 10% salt, .75% CRF-II Sufficient to cover zones of interest.

TEN POINT COMPLIANCE PROGRAM  
OF NTL-6 APPROVAL OF OPERATIONS

Patrick Petroleum Corp.  
Nancy Canyon #1-28  
1080' FNL and 1170' FWL  
Sec. 28, T38S - R25E  
San Juan County, Utah

5. Blowout preventer stack will consist of a 10", Series 3000 BOP. See BOP Diagram. Testing procedures: Equipment will be tested prior to drilling out from under surface and operational checks will be made daily thereafter.

6. Drilling fluid will be as follows:

<u>DEPTH - INTERVAL</u>		<u>MUD TYPE</u>
Surf. to 300'		Spud mud
<u>DEPTH - INTERVAL</u>		<u>MUD TYPE</u>
300' - 2800'		Fresh water.

<u>MUD WT.</u>	<u>VISCOSITY</u>	<u>FLUID LOSS</u>	<u>PH</u>
9#/gal.	35	15-20	9.5

<u>DEPTH - INTERVAL</u>		<u>MUD TYPE</u>
2800' - 6000' (T.D.)		Chemical gel mud.

<u>MUD WT.</u>	<u>VISCOSITY</u>	<u>FLUID LOSS</u>	<u>PH</u>
8.9 - 11.4	35-45	6.0	10.0

7. Auxiliary equipment to be used is as follows:

- Kelly Cock
- Float above the bit.
- Monitoring of the system will be done visually.
- A sub with a full opening valve will be on the floor when the kelly is not in use.

8. Testing, logging and coring will be as follows:

- A 60' core in the Lower Desert Creek Formation will be obtained.
- Drill stem tests will be run as required by the wellsite geologist.
- The logging program will consist of GR-Sonic Integrated and Dual Induction from base of surface casing to T.D. CNL-FDC-GR Caliper will be run from 4000' to T.D.
- Stimulation will be determined after the evaluation of the logs and any testing that is done. If treatment is needed a sundry notice will be submitted.

9. No abnormal pressures or hydrogen sulfide gas are anticipated during the course of drilling to T.D. The maximum bottom hole pressure to be expected is 3500 psi.

10. Patrick Petroleum Corp. plans to spud the Nancy Canyon #1-28 on May 10, 1981 and intends to complete the well within approximately one month after the well has reached T.D.

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS, AND MINING**

Federal

5. LEASE DESIGNATION AND SERIAL NO.

U 104 - 28A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG \***1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other \_\_\_\_\_

7. UNIT AGREEMENT NAME

Nancy Canyon

8. FARM OR LEASE NAME

Nancy Canyon

9. WELL NO.

#1-28

10. FIELD AND POOL, OR WILDCAT

W/C

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

28-T38S-R25E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

19. ELEV. CASINGHEAD

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other P & A

2. NAME OF OPERATOR

Patrick Petroleum Corp. of Michigan - LeGladys, Michigan

3. ADDRESS OF OPERATOR

388 Denver Club Building Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface

1080' FNL-1170 FWL

At top prod. interval reported below

same

At total depth

same

14. PERMIT NO.

43-037-30626

DIVISION OF  
OIL, GAS & MINING

15. DATE SPUDDED

7-29-81

16. DATE T.D. REACHED

8-18-81

17. DATE COMPL. (Ready to prod.)

P &amp; A

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

5155 GR

20. TOTAL DEPTH, MD &amp; TVD

6010

21. PLUG, BACK T.D., MD &amp; TVD

22. IF MULTIPLE COMPL., HOW MANY\*

None

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

0 - TD

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

None

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIL-SFL

FDC-CNL-GR

BHC

27. WAS WELL CORED

yes

29. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	61#	340	17 1/2	350 sx. "B" w/2% CaCl <sub>2</sub>	-0-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
NONE					NONE		

31. PERFORATION RECORD (Interval, size and number)

NONE

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
NONE	

33.\* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
NONE							
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
			→				
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
		→					

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE Operations Superintendent

DATE 2-11-82

\*(See Instructions and Spaces for Additional Data on Reverse Side)

CC: Patrick Petroleum

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS					
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP	FEET DEPTH	
Desert Creek	5890	5944	Recovery of 50' core-no apparent porosity.	Plugged as follows: 6010-5650 4700-4600 2850-2750 1800-1600 1050-950 400-300 50-surf.				
Desert Creek	5950	5984	Recovery of 34'-no shows  DST #1 5935 to 5985 15-30-30-60 -Open w/weak blow - dead in 6 minutes  IH 3135 - Recovery of mud in D.P. TF 47-60 ISI 85 FF 60-72 FSI 85 FH 3023					103 SX. 29 SX. 70 SX. 139 SX. 70 SX. 70 SX. 35 SX.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT TO LICATE\*  
(Other instructions on  
reverse side)

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☐ OTHER Dry Hole

2. NAME OF OPERATOR Patrick Petroleum, Corp

3. ADDRESS OF OPERATOR 950 - 17th ST #1655 Denver CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface 1080' FNL, 1170' FWL

14. PERMIT NO. \_\_\_\_\_

15. ELEVATIONS (Show whether DF, RT, OR, etc.)  
5155' GR

5. LEASE DESIGNATION AND SERIAL NO.  
U-104 28-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME \_\_\_\_\_

7. UNIT AGREEMENT NAME  
Nancy Canyon

8. FARM OR LEASE NAME  
Nancy Canyon

9. WELL NO.  
1-28

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec 28, T38S - R25W

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

RECEIVED  
JUN 07 1982

DIVISION OF  
OIL, GAS & MINING

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

### NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <u>Correspondence change</u>	

### SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) _____	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

As of June, 1982, LeClair-Westwood, Inc., will no longer be the agent on the above referenced well. Please remit all correspondence to Patrick Petroleum Corp with attention to Mr. William Boyt. Thank you.

18. I hereby certify that the foregoing is true and correct

SIGNED Jeff Robbins TITLE Environmental Engineer DATE June 3, 1982

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side